

Rainfall—Has been decidedly more important than for some weeks past. The heaviest average falls have occurred in Orissa, which has received 1.16 inches; South-West Bengal and Chutia Nagpur have received an average fall of 0.40 inch, and East Bengal one of 0.26 inch. The falls in the other districts have, however, been so small as to be quite unimportant. Compared with the normal, Orissa has received a large excess for the week, South-West Bengal a decided excess, and Chutia Nagpur a slight excess; but in all other districts the rainfall has been in rather large defect of the normal.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of March 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94.6	61.6	88.3	72.1	80.2	-0.3	1.16	0.27	+0.89	2.5	0.6	+1.9	1.31	0.46	63.56	54.33
South-West Bengal ...	94.3	66.7	88.1	67.4	77.8	-1.6	0.40	0.27	+0.13	1.5	0.6	+0.9	0.50	0.63	53.31	53.03
East Bengal	91.1	57.6	55.8	66.4	76.4	-0.0	0.26	0.48	-0.19	0.9	0.7	+0.2	0.30	1.13	70.90	76.44
North Bengal	94.9	49.4	86.0	66.1	74.0	0	0.01	0.20	-0.19	0.2	0.5	-0.3	0.04	0.40	73.55	71.40
North Behar*	91.3	49.9	86.4	67.7	72.0	-1.3	NH	0.09	-0.09	0.0	0.4	-0.4	0.10	0.23	58.98	46.43
South Behar	83.2	57.0	87.6	64.1	75.9	-0.7	0.04	0.11	-0.07	0.3	0.5	0	0.24	0.25	44.42	44.55
Chutia Nagpur	86.2*	60.9*	81.4*	61.1*	71.3*	-2.6*	0.40	0.36	+0.04	2.0	0.7	+1.3	0.97	0.50	61.05	50.89

* Durbhanga and Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 18th March 1890.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th March 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
Mar. 1890 ...	9th ...	29.964	74.9	85.0	20.3	64.7	77.8	67.2	.526	60.4	55	...
" " "	10th ...	.973	75.0	85.0	20.1	64.9	72.6	68.6	.647	66.3	81	0.21
" " "	11th ...	.884	79.5	90.0	21.1	68.9	82.1	75.5	.796	72.4	79	...
" " "	12th ...	.864	79.5	90.9	21.1	68.9	81.6	76.0	.824	73.4	77	0.06
" " "	13th ...	.814	78.1	88.0	19.9	68.1	79.6	73.6	.749	70.6	74	0.15
" " "	14th ...	.796	80.4	91.0	21.2	69.8	84.6	69.6	.523	60.2	44	...
" " "	15th ...	.794	82.4	92.0	19.2	72.8	82.6	75.0	.767	71.8	69	...

The mean 10 A.M. pressure of the seven days Inches. 29.870

The mean temperature of the seven days 75.5

The extreme variation of temperature 27.3

The maximum temperature 92.0

The mean 10 A.M. relative humidity of the seven days % 68

The total fall of rain from 9th to 15th March 1890 Inches. 0.42

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 17th March 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
March	9th	141.6	4.3	29.899	75.2	84.9	17.2	67.7	67.8	0.586	63.4	69	SSW and variable ...	121	0.18	Chiefly cloudy, o, p, t, <.
"	10th	143.8	4.1	29.869	73.8	82.8	18.0	64.8	69.9	0.685	68.0	82	SSW and variable ...	57	0.04	Chiefly cloudy, o, d.
"	11th	146.5	7.2	29.797	77.7	88.3	19.8	68.8	72.3	0.722	69.5	78	SW, WSW and SSE	92	Nil	Partially cloudy, t, <, =.
"	12th	146.5	8.8	29.787	78.1	87.6	18.9	68.7	73.4	0.766	71.2	80	SSW and SW	161	0.05	Partially cloudy, o, g, d.
"	13th	144.0	8.5	29.761	78.4	87.5	18.5	69.0	71.6	0.687	68.0	72	WSW and SSW	94	0.02	Chiefly cloudy, o, t, <, d.
"	14th	150.9	9.4	29.724	80.2	90.6	21.4	69.2	70.0	0.601	64.2	63	WNW and SSW	92	Nil	Chiefly clear, d.
"	15th	144.5	8.5	29.717	81.0	90.9	17.9	73.0	73.0	0.708	68.9	69	SW and SSW	146	"	Partially cloudy.

The mean pressure of the seven days ... 29.793
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.839

The total number of hours of bright sunshine ... 45.8
 The maximum possible number of hours of sunshine ... 83.3

The mean temperature of the seven days ... 77.8
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 79.4
 The extreme variation of temperature ... 26.1
 The maximum temperature ... 90.9

The highest velocity of the wind in one hour ... 13
 lbs.

The highest pressure of wind on one square foot ... Approximately 7

The mean relative humidity ... 73

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 68

The total fall of rain from 9th to 15th March 1890 ... 0.29
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.13

The total fall from 1st January to 15th March 1890 ... 1.09

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 2.31

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beekley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, < lightning, Δ dew, = fog.

D. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 17th March 1890.

MEMORANDUM.

FROM the annexed table, exhibiting the vital statistics of the principal municipalities in Bengal for the week ending 1st March 1890, it appears—

1. That during the week in question births and deaths were registered in the proportions, respectively, of 18.5 and 20.1 per 1,000 of population, as opposed to 20.6 and 22.2 per 1,000, respectively, during the preceding week ending 22nd February, indicating a retrogression in the registration of both the events.

2. That births and deaths were recorded at the highest rates from the following municipalities:—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Narainganj	...	37.3	Poori	...	65.0
Durbhanga	...	31.5	Utterpara	...	37.8
Serampore	...	31.4	Gya	...	37.6
Comillah	...	30.8	Hughli and Chinsurah	...	34.5
Jessore	...	30.6	Serampore	...	33.4

3. That the only noticeable point, in connection with the incidence of the following death-causes in comparison with the outcome of the preceding week, is a decrease in the mortality from fever, *vide* table given below—

		Ratio per mille during the weeks ending—	
		1st March 1890.	22nd February 1890.
Cholera	...	2.9	2.6
Small-pox	...	1.0	1.1
Fever	...	7.4	9.1
Bowel-complaints	...	2.5	2.9
Injury	...	.6	.2
Other causes	...	5.7	6.3

4. That small-pox was still noticeably severe in the Poori Municipality (mortality 31.5 per 1,000 of population), and bowel-complaints prevailed in Hughli and Chinsurah town (mortality 11.5 per 1,000 of population); while cholera, fever, and the maladies coming under the head of "Other causes" gave rise to the highest mortality in the following municipalities:—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Narainganj	16.6	Jessore	24.5	Serampore	13.7
Comillah	15.4	Rampore Beaulah	23.6	Chupra	12.1
Monghyr	9.9			Bhagulpore	10.8
Gya	8.9			Poori	10.4
Dacca	4.5				
Bhagulpore	4.5				
Durbhanga	3.1				
Howrah	2.3				

5. That the death-rates according to Sex, Class and Age stood as shown below:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	21.9	Hindus	21.8	Under 1 year	127.0
Females	18.2	Mahomedans	16.4	1 and under 5 years	21.8
Ratio of male deaths to every 100 female deaths, calculated on the proportions such mortality bears to the total male and female population	120	Buddhists	25.7	5 " 10 "	11.8
				10 " 15 "	8.1
				15 " 20 "	14.1
				20 " 30 "	14.3
				30 " 40 "	12.8
				40 " 50 "	20.8
				50 " 60 "	16.1
				60 years and upwards	67.7

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal.

The 17th March 1890.

DISTRICTS.		NAMES OF MUNICIPALITIES.		POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—														
				POPULATION.			BIRTHS.			DISEASE.														
				POPULATION.			BIRTHS.			DISEASE.														
				POPULATION.			BIRTHS.			DISEASE.														
Males.		Females.		Total.		Ratio of male births to every 100 female births.		NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DISEASE.		DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.		
Males.		Females.		Total.		Ratio of male births to every 100 female births.		NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DISEASE.		DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.		
Males.		Females.		Total.		Ratio of male births to every 100 female births.		NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DISEASE.		DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.		
Males.		Females.		Total.		Ratio of male births to every 100 female births.		NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS FROM—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DISEASE.		DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.		
Burdwan	Burdwan	16,603	16,617	33,220	137	9	107	116	107	...	...	...	...	...	...	...	...	...	...	...	...	...	...	137
Midnapore	Midnapore	16,927	16,835	33,762	137	5	77	82	137	...	...	...	...	...	...	...	...	...	...	...	...	...	...	137
Hughli	Hughli and Chinsurah.	15,528	15,820	31,348	151	7	11	18	151	...	...	...	...	...	...	...	...	...	...	...	...	...	...	151
Baranagar	Baranagar	15,530	15,820	31,350	151	12	16	28	151	...	...	...	...	...	...	...	...	...	...	...	...	...	...	151
Howrah	Howrah	2,645	2,654	5,299	151	1	2	3	151	...	...	...	...	...	...	...	...	...	...	...	...	...	...	151
Baranagar	Baranagar	53,133	57,600	110,733	159	21	14	35	159	...	...	...	...	...	...	...	...	...	...	...	...	...	...	159
Baranagar	Baranagar	7,830	6,779	14,609	175	5	5	10	175	...	...	...	...	...	...	...	...	...	...	...	...	...	...	175
Kudra	Kudra	13,503	14,114	27,617	170	4	9	13	170	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170
Baranagar	Baranagar	4,925	4,655	9,580	180	1	5	6	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	13,708	15,979	29,687	180	4	9	13	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	4,530	3,685	8,215	180	1	5	6	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	16,766	9,085	25,851	180	8	2	10	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	4,579	2,439	7,018	180	2	4	6	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	42,755	37,379	80,134	180	16	14	30	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	7,695	4,956	12,651	180	3	6	9	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	13,540	8,790	22,330	180	4	8	12	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	8,153	5,353	13,506	180	3	5	8	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	78,702	81,475	160,177	180	12	12	24	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	38,259	37,531	75,790	180	10	13	23	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	22,000	22,005	44,005	180	4	8	12	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	25,084	19,668	44,752	180	4	8	12	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	25,774	22,322	48,096	180	13	27	40	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	25,116	26,554	51,670	180	12	16	28	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	29,640	27,813	57,453	180	6	10	16	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	28,154	29,395	57,549	180	12	16	28	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	8,463	6,553	15,016	180	...	...	...	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Baranagar	Baranagar	13,247	11,857	25,104	180	2	6	8	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180
Total	Total	1,000,000	1,000,000	2,000,000	180	177	275	452	180	60	20	151	51	15	110	411	210	10	74	24	532	170	182	180

DISTRICTS.		MORTALITY ACCORDING TO—										Age.									
		Class.					Deaths.					Ratio per 1,000 of Population per Annum.									
		Deaths among—					Ratio per 1,000 of Population per Annum.														
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.
Burdwan
Midnapore
Hooghly
Baranpore
Howrah
Nadua
Jessore
Rajshahy
Darjiling
Dacca
Chittagong
Tipperah
Paima
Gya
Sahabud
Moulterpore
Durbhanga
Chopra
Shahdolore
Monghyr
Purneah
Footi
Total

W. H. GREGG, Dip. Publ. Health, Camb.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of December 1889.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
3	1. Grain ...	6	14	20	975	20	975	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
19	7. Building materials ...	3	288	291	464	18	25	
3	8. Miscellaneous ...	.....	21	21	1,135	21	1,135	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
3 rafts	10. Timber No.	.....	99	99	187	99	187	
4 „	11. Bamboos „	.....	2,100	2,100	27	2,100	27	
25 boats 7 rafts.	12. Total ...	{ 9	323 & 2,199 No.	332 & 2,199 No.	{ 2,788 }	59 & 2,199 No.	{ 2,349 }	
58 boats 42 rafts.	13. Total of same month last year.	{	1,040 & 32,876 No.	1,040 & 32,876 No.	{ 4,326 }	141 & 32,876 No.	{ 2,746 }	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		2	23	25	Total tollage of month— 24 + 25 + 26 ...			140 12 6
15. Total number of boats plying passenger No.		4	1	5				
15½. Total empty boats		21	9	30	Total tollage of same month last year ...			413 12 9
16. Total registered tonnage, cargo, private Tons		10	90	100				
16½. Ditto ditto, Government Tons		13	460	473	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		83	26	109				
17½. Ditto ditto, empty Tons		208	78	286				
18. Ton-mileage ...		3,458	7,476	10,934	1. Balance not recovered on the 1st of the month ...			Rs. A. P. 12 8 0
19. Estimated value of cargo Rs.		700	1,874	2,574	2. Tollage per month ...			140 12 6
20. Number of passengers ...		187	100	287				
21. Rafts, bamboos No.		.....	2,100	2,100	3. Total ...			153 4 6
22. Do., bullahs „		.....	99	99				
23. Estimated value of rafts Rs.		.....	214	214	4. Amount credited in the accounts of the month ...			152 4 6
24. Tollage on boats „		34-1-0	91-6-0	125-7-0				
25. Compounded tollage on boats Rs.		.....	.....	.....	5. Balance due at the end of the month ...			1 0 0
26. Tollage on rafts „		.....	15-5-6	15-5-6				
27. Total tollage on boats per ton-mile Rs.		.....	.....	2-20				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
92	1. Grain ...	276	431	707	35,130	707	35,130
1	2. Cotton ...	.....	2	2	500	2	500
5	3. Oilseeds ...	4	8	12	1,260	12	1,260
29	4. Salt ...	89	39	128	11,050	128	11,050
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
38	7. Building materials ...	.....	627	627	7,810	286	6,710
130	8. Miscellaneous ...	642	694	1,336	2,23,460	1,336	2,23,460
6	9. Fuel ...	25	.....	25	70	25	70
5 rafts	10. Timber ...	.....	11,376 c. ft.	11,376 c. ft.	1,520	11,376 c. ft.	1,520
9 "	11. Bamboos ...	.....	9,387 "	9,387 "	440	9,387 "	440
301 & 14 rafts.	12. Total ...	{ 1,036	1,801 & 20,763 c. ft.	2,837 & 20,763 c. ft. }	2,81,240 {	2,496 & 20,763 c. ft. }	2,80,140
368 & 18 rafts.	13. Total of same month last year.	{ 915	2,007 & 52,219 No.	2,922 & 52,219 No. }	3,04,060 {	2,717 & 52,219 No. }	3,01,990
		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo No.		136	165	301	Total tollage of month— 24 + 25 + 26 ...		5,939 13 6
15. Total number of boats plying passenger No.		60	64	124	Total tollage of same month last year ...		4,932 2 5
15½. Ditto empty boats "		225	150	375	Memorandum of Tollage		
16. Total registered tonnage, cargo, private Tons		2,100	2,970	5,070			
16½. Ditto ditto, Government "		.....	567	567	Rs. A. P.		
17. Total registered tonnage, passenger Tons		2,267	1,669	3,936			
17½. Ditto ditto empty boats "		1,704	624	2,328	1. Balance not recovered on the 1st of the month ...		
18. Ton-mileage ...		259,743	221,929	481,672			
19. Estimated value of cargo Rs.		194,690	84,590	2,79,280	2. Tollage per month ...		
20. Number of passengers ...		2,541	2,484	5,025			
21. Rafts, bamboos C. ft.		.....	9,387	9,387	3. Total ...		
22. Do., timber "		.....	11,376	11,376			
23. Estimated value of rafts Rs.		.....	1,960	1,960	4. Amount credited in the accounts of the month ...		
24. Tollage on boats "		2,269-12-5	3,540-10-10	5,810-7-3			
25. Compounded tollage on boats Rs.		.....	.....	.....	5. Balance due at the end of the month ...		
26. Tollage on rafts "		.....	129-6-3	129-6-3			
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-3			
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-10-0			

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
98	1. Grain ...	278	.....	278	22,890	278	22,890
2	2. Cotton ...	1	3	4	1,000	4	1,000
5	3. Oilseeds ...	19	.....	19	1,560	19	1,560
51	4. Salt ...	.....	161	161	13,470	161	13,470
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
18	7. Building materials ...	19	128	147	340	19	140
63	8. Miscellaneous ...	101	57	158	13,920	158	13,920
16	9. Fuel ...	148	.....	148	410	148	410
9 rafts	10. Timber ...	13,284 c. ft.	.....	13,284 c. ft.	5,610	13,284 c. ft.	5,610
2 do.	11. Bamboos ...	.....	925 c. ft.	925 "	80	925 "	80
253 & 1 rafts.	12. Total ...	{ 566 & 13,284 c. ft.	{ 349 & 925 c. ft.	{ 915 & 14,209 c. ft.	{ 59,280	{ 787 & 14,209 c. ft.	{ 59,080
171 & 7 rafts.	13. Total of same month last year ...	{ 277 & 1,526 No.	{ 196	{ 473 & 1,526 No.	{ 36,710	{ 430 & 1,526 No.	{ 36,670
		Up.	Down.	Total.			Rs. A. P.
1. Total number of boats plying cargo No.		164	89	253	Total tollage of month— 24 + 25 + 26 ...		707 8 9
2. Total number of boats plying passenger No.		5	4	9	Total tollage of same month last year ...		445 14 0
3. Ditto empty boats "		77	158	235	Memorandum of Tollage.		
4. Total registered tonnage, cargo, private Tons		1,100	485	1,585			
5. Ditto ditto, Government "		.....	245	245	Rs. A. P.		
6. Total registered tonnage, passenger Tons		78	70	148			
7. Ditto empty boats "		367	551	918	1. Balance not recovered on the 1st of the month ...		301 6 6
8. Ton-mileage ...		35,612	29,474	65,086			
9. Estimated value of cargo Rs.		32,490	21,100	53,590	2. Tollage per month ...		707 8 9
10. Number of passengers ...		60	47	107			
11. Rafts, bamboos C. ft.		.....	925	925			
12. Do., timber "		13,284	.....	13,284	3. Total ...		1,008 15 3
13. Estimated value of rafts Rs.		5,610	80	5,690			
14. Tollage on boats "		326-7-2	221-6-4	547-13-6	4. Amount credited in the accounts of the month		645 12 8
15. Compounded tollage on boats Rs.		.....	.....	.....
16. Tollage on rafts "		156-6-3	3-5-0	159-11-3			
17. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-6	5. Balance due at the end of the month ...		363 2 7
18. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	1-2-0			

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupces.	Tons.	
30	1. Grain ...	76	3	79	4,039	79	4,039
5	2. Cotton ...	4	4	4½	730	4½	730
1	3. Oilseeds ...	.....	1	1	56	1	56
7	4. Salt ...	.....	25	25	3,500	25	3,500
20	5. Piece-goods ...	.....	21	21	5,880	21	5,880
...	6. Metal ...	.....	.....	.....	.....	.....	.....
11	7. Building materials ...	.....	110	110	47	.....	.....
15	8. Miscellaneous ...	10	48	58	7,055	46	6,951
1	9. Fuel ...	.....	5½	5½	16	.....	.....
18 rafts	10. Timber, 865 No. ...	.....	5,190 c. ft.	5,190 c. ft.	2,595	5,190 c. ft.	2,595
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
90 & 18 rafts.	12. Total ...	{ 86½	{ 217½ & 5,190 c. ft.	{ 304 & 5,190 c. ft.	{ 23,918 {	{ 176½ & 5,190 c. ft. }	{ 23,751
68 & 8 rafts.	13. Total of same month last year.	{ 105½ & 96 c. ft.	{ 169 & 3,738 c. ft.	{ 274½ & 3,834 c. ft.	{ 18,120 {	{ 267½ & 3,834 c. ft. }	{ 18,068
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	32	58	90	Total tollage of month— 24 + 25 + 26 ...		Rs. A 184
15.	Total number of boats plying passenger ... No.	.....	1	1	Total tollage of same month last year ...		149 18
15½.	Ditto empty boats ..	30	68	98	Memorandum of Tollage.		
16.	Total registered tonnage, cargo Tons	173	119	292			
16½.	Ditto Govt. do. ..	.....	224	224			
17.	Total registered tonnage, passenger Tons	.....	5	5	1. Balance not recovered on the 1st of the month ...		Rs. 24
17½.	Ditto empty boats ..	158	179	337			
18.	Ton-mileage ...	4,302	7,240	11,542			
19.	Estimated value of cargo Rs.	4,552	16,771	21,323			
20.	Number of passengers ...	151	262	413			
21.	Rafts, bamboos C. ft.	.....	.....	.....	2. Tollage per month ...		184
22.	Do., bullahs ..	.....	5,190	5,190	3. Total ...		208
23.	Estimated value of rafts Rs.	.....	2,595	2,595			
24.	Tollage on boats ..	51-15-9	88-12-0	140-11-9	4. Amount credited in the accounts of the month ...		208
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ..	.....	43-9-0	43-9-0	5. Balance due at the end of the month ...		Na
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-34			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-5			

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain ...	15½	.....	15½	870	15½	870	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	5	3	8	940	8	940	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
4	7. Building materials ...	.....	35	35	113	.....	.....
3	8. Miscellaneous ...	.....	19	19	2,494	19	2,494	
16 rafts	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber, No. 310 ...	.....	1,860 c. ft.	1,860 c. ft.	651	1,860 c. ft.	651	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
16 & 16 rafts.	12. Total ...	{ 20½	{ 57 & 1,860 c. ft.	{ 77½ & 1,860 c. ft.	{ 5,068	{ 42½ & 1,860 c. ft.	{ 4,955	
24 & 8 rafts.	13. Total of same month last year.	{ 52	{ 26 & 330 c. ft.	{ 78 & 330 c. ft.	{ 4,443	{ 68 & 330 c. ft.	{ 4,408	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	8	8	16	Total tollage of month— 24 + 25 + 26 ...			53 9 6
15.	Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year ...			38 3 6
15½.	Ditto of empty ditto "	11	12	23				
16.	Total registered tonnage, cargo Tons	41	44	85				
16½.	Ditto of Govt. ditto "	.....	70	70	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	.....	.....	.....	
17½.	Ditto of empty ditto "	47	22	69				
18.	Ton-mileage ...	1,301	1,850	3,151	1. Balance not recovered on the 1st of the month ...			13 15 3
19.	Estimated value of cargo Rs.	1,454	2,963	4,417	2. Tollage per month ...			53 9 6
20.	Number of passengers ...	235	223	458	3. Total ...			67 8 9
21.	Rafts, bamboos C. ft.	.....	.....	.....	4. Amount credited in the accounts of the month ...			67 8 9
22.	Do., bullahs "	.....	1,860	1,860				
23.	Estimated value of rafts Rs.	.....	651	651				
24.	Tollage on boats "	15-2-9	22-15-0	38-1-9	5. Balance due at the end of the month ...			Nil
25.	Compounded tollage on boats Rs.	.....	.....	.....	
26.	Tollage on rafts "	.....	15-7-9	15-7-9				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-32				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-4				

JAJEPORE CANAL

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
...	1. Grain	.....	...	.....	.....	.....	.....
...	2. Cotton	.....	.....	.....	.....	.....	.....
...	3. Oilseeds	.....	.....	.....	.....	.....	.....
...	4. Salt	.....	.....	.....	.....	.....	.....
...	5. Piece-goods	.....	.....	.....	.....	.....	.....
...	6. Metal	.....	.....	.....	.....	.....	.....
...	7. Building materials	.....	.....	.....	.....	.....	.....
13	8. Miscellaneous	.....	10½	10½	2,450	10½	2,450	
1	9. Fuel	4	.....	4	55	4	55	
17 rafts.	10. Timber, 531 No.	.....	3,186 c. ft.	3,186 c. ft.	415	3,186 c. ft.	415	
...	11. Bamboos	.....	.....	.....	.....	.....	.....
14 & 17 rafts.	12. Total	{ 4	{ 10½ & 3,186 c. ft.	{ 14½ & 3,186 c. ft.	{ 2,920	{ 14½ & 3,186 c. ft.	{ 2,920	
8 & 12 rafts.	13. Total of same month last year.	{ 16 & 1,890 c. ft.	{ 3	{ 16 & 1,890 c. ft.	{ 980	{ 16 & 1,890 c. ft.	{ 980	
		Up.	Down.	Total.				Ra. A. P.
14.	Total number of boats plying cargo No.	1	13	14	Total tollage of month—24 + 25 + 26			13 14 3
15.	Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year			9 7 11
15½.	Ditto empty ditto	21	2	23	Memorandum of Tollage.			
16.	Total registered tonnage, cargo Tons	.....	28	28				
16½.	Ditto Govt. ditto	.....	.....	.....	
17.	Total registered tonnage, passenger Tons	.....	.....	.....	
17½.	Ditto empty ditto	14	1	15				
18.	Ton-mileage	132	130	262				
19.	Estimated value of cargo Rs.	55	2,450	2,505				
20.	Number of passengers	.....	.....	.....	
21.	Rafts, bamboos C. ft.	.....	.....	.....	
22.	Do., bullahs	.....	3,186	3,186				
23.	Estimated value of rafts Ra.	.....	415	415				
24.	Tollage on boats	2-7-0	3-2-0	5-9-0				
25.	Compounded tollage on boats Ra.	.....	.....	.....	
26.	Tollage on rafts	.....	8-5-3	8-5-3				
27.	Total tollage on boats per ton-mile Ra.	.....	.....	0-0-4-07				
28.	Total tollage on rafts per 100 cubic feet Ra.	.....	.....	0-4-2				
								Ra. A. P.
					1. Balance not recovered on the 1st of the month			15 8 0
					2. Tollage per month			13 14 3
					3. Total			29 6 3
					4. Amount credited in the accounts of the month			29 6 3
					5. Balance due at the end of the month			Nil

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupess.	
888	1. Grain ...	5,013	365	5,378	5,378	2,87,160	
...	2. Cotton ...	.....	3	3	3	1,300	
15	3. Oilseeds ...	125	47	172	172	15,481	
89	4. Salt ...	...	710	710	710	74,522	
9	5. Piece-goods ...	7	83	90	90	2,44,630	
19	6. Metal ...	122	79	201	201	1,86,560	
12	7. Building materials ...	77	6	83	83	1,785	
288	8. Miscellaneous ...	724	630	1,354	1,354	4,05,664	
18	9. Fuel ...	95	93	188	188	2,445	
66 rafts	10. Timber ...	15,497 c. ft.	84 c. ft.	15,581 c. ft.	15,581 c. ft.	7,619	
9 "	11. Bamboos ...	2 100 "	125 "	2,225 "	2,225 "	218	
1,388 & 75 rafts.	12. Total ...	6,163 & 17,597 c. ft.	2,016 & 209 c. ft.	8,179 & 17,806 c. ft.	8,179 & 17,806 c. ft.	12,27,384	
1,658 & 89 rafts.	13. Total of same month last year.	6,884 & 29,801 c. ft.	2,010 & 28 c. ft.	8,894 & 29,829 c. ft.	8,894 & 29,829 c. ft.	10,76,485	
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo No.	1,074	264	1,338	Total tollage of month—24 + 25 + 26 ...		10,882 15 0
15.	Total number of boats plying passenger No.	460	658	1,118	Total tollage of same month last year .		13,272 0 3
154.	Ditto empty "	514	766	1,280			
16.	Total registered tonnage, cargo Tons	14,229	3,826	18,055	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	3,964	4,105	8,069			
174.	Ditto empty "	2,319	3,429	5,748			
18.	Ton-mileage	438,902	230,398	669,300	1. Balance not recovered on the 1st of the month ...		5,310 11 10
19.	Estimated value of cargo Rs.	6,69,267	5,50,280	12,19,547	2. Tollage per month ...		10,882 15 0
20.	Number of passengers ...	3,426	9,303	12,729	3. Total ..		16,193 10 10
21.	Rafts, bamboos C. ft.	2,100	125	2,225			
22.	Do., bullahs "	15,497	84	15,581			
23.	Estimated value of rafts Rs.	7,614	223	7,837			
24.	Tollage on boats "	7,026-8-6	3,616-2-0	10,642-10-6			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month		9,306 15 9
26.	Tollage on rafts "	239-6-3	0-14-3	240-4-0			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3			
28.	Total tollage on rafts per 100 cubic feet Rs.	...	.....	1-5-6	5. Balance due at the end of the month ...		6,886 11 1

HIDGELLER TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
749	1. Grain ...	3,919	144	4,063	2,37,557	4,063	2,37,557	
...	2. Cotton ...	...	...	...	...	...	...
5	3. Oilseeds ...	...	7	7	600	7	600	
14	4. Salt ...	...	128	128	14,360	128	14,360	
...	5. Piece-goods ...	...	...	...	...	...	...
1	6. Metal ...	...	1	1	140	1	140	
13	7. Building materials ...	9	47	56	1,939	56	1,939	
797	8. Miscellaneous ...	346	277	623	67,902	623	67,902	
12	9. Fuel ...	31	128	159	1,965	88	1,115	
10 rafts	10. Timber ...	126 c. ft.	416 c. ft.	542 c. ft.	655	542 c. ft.	655	
...	11. Bamboos ...	...	...	...	...	...	...
1,591 & 10 rafts.	12. Total ...	4,305 & 126 c. ft.	732 & 46 c. ft.	5,037 & 542 c. ft.	3,25,118	4,966 & 542 c. ft.	3,24,268	
1,187 & 16 rafts.	13. Total of same month last year.	2,523 & 596 c. ft.	500 & 6,974 c. ft.	3,023 & 7,570 c. ft.	1,86,749	3,003 & 7,570 c. ft.	1,86,574	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	888	703	1,591	Total tollage of month— 24 + 25 + 26 ...			3,400 10 3
15.	Total number of boats plying passenger No.	58	35	93	Total tollage of same month last year			2,371 3 6
16.	Total registered tonnage, cargo Tons	8,708	3,630	12,398	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	461	3-5	846				
18.	Ton-mileage ..	129,792	64,226	194,018	1. Balance not recovered on the 1st of the month ...			Rs. A. P.
19.	Estimated value of cargo R.	2,40,127	84,336	3,24,463				1,636 12 9
20.	Number of passengers ...	927	1,361	2,288	2. Tollage per month ...			3,400 10 3
21.	Rafts, bamboos C. ft.	...	...	...				...
22.	Do., bullahs ..	126	416	542	3. Total ...			5,037 7 0
23.	Estimated value of rafts Ra.	250	405	655				...
24.	Tollage on boats ..	2,271-6-3	1,122-4-0	3,393-10-3	4. Amount paid into treasury during the month			2,298 0 0
25.	Compounded tollage on boats Ra.	0 5-6	...	0-5-6				...
26.	Tollage on rafts ..	1-14-0	4-12-6	6-10-6	5. Balance due at the end of the month			2,739 6 9
27.	Total tollage on boats per ton-mile Ra.	...	...	0-0-3-3				...
28.	Total tollage on rafts per 100 cubic feet Ra.	...	...	1-3-7				...

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

No. of boats plying.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
14	1. Grain ..	.....	134	134	7,953	134	7,953	
	2. Cotton ...	.....	.....	.....	.....	.....	.....
17	3. Oilseeds ...	.....	250	250	25,704	250	25,704	
3	4. Salt ...	75	.....	75	6,870	75	6,870	
21	5. Piece-goods ...	144	2	146	25,640	146	25,640	
	6. Metal ...	8	1	9	17,030	9	17,030	
25	7. Building materials ...	100	114	214	1,830	95	1,255	
37	8. Miscellaneous ...	96	92	188	41,784	185	41,774	
	9. Fuel { rafts	.....	271	271	1,600	271	1,600	
	10. Timber { boat	147	.....	147	6,072	1	180	
	rafts	.....	167	167	1,975	167	1,975	
	11. Bamboos { boat	24	.....	24	450	24	450	
	rafts	.....	326	326	4,582	326	4,582	
132	12. Total	594	1,357	1,951	1,41,490	1,683	1,35,013	
146	13. Total of same month last year	421	1,151	1,572	1,08,338	1,176	1,07,761	
		Up.	Down.	Total.	Rs. A. P.			
Total number of boats plying cargo No.		58	74	132	Total tollage of month— 24 + 25 + 26 ...			
Total number of boats plying passenger No.		6	8	14				
Ditto empty ditto "		48	18	66	Total tollage of same month last year ...			
Total registered tonnage, cargo Tons		889	951	1,840	1,321 13 3			
Total registered tonnage, passenger Tons		150	208	358				
Ditto empty boats "		246	107	353	Memorandum of Tollage.			
Ton-mileage ...		80,003	1,03,635	1,83,638	Rs. A. P.			
Estimated value of cargo Rs.		47,219	86,114	1,33,333	1. Balance not recovered on the 1st of the month ...			
Number of passengers ...		397	406	803	317 13 4			
Rafts, bamboos C. ft.		.....	48,897	48,897	2. Tollage per month ...			
Do., bullahs "		.....	32,827	32,827	1,561 8 9			
Estimated value of rafts Rs.		.....	8,157	8,157	3. Total ...			
Tollage on boats "		538-3-0	5-0-1-3	1,118-4-3	1,879 6 1			
Compounded tollage on boats Rs.		75-0-0	75-0-0	150-0-0				
Tollage on rafts "		.....	293-4-6	293-4-6	4. Amount credited in the accounts of the month ...			
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-3	1,479 11 9			
Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-5-8	5. Balance due at the end of the month			
					399 10 4			

SONE CIRCLE.
ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
8	1. Grain ...	.....	169	169	13,833	169	13,833
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
6	3. Oilseeds ...	.....	142	142	15,990	142	15,990
10	4. Salt ...	109	.....	109	16,730	109	16,730
...	5. Piece-goods ...	14	1	15	20,400	15	20,400
...	6. Metal ...	1	2	3	26,200	3	26,200
8	7. Building materials ...	.....	71	71	91	60	51
92	8. Miscellaneous ...	125	596	721	19,019	163	18,611
10	9. Fuel ...	160	.....	160	1,650	...	...
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts. }	Bullahs ...	.....	231	231	1,099	231	1,099
	11. Bamboos ...	.....	134	134	1,300	134	1,300
	Firewood ...	.....	623	623	2,913	623	2,913
134	12. Total ...	409	1,969	2,378	1,19,225	1,649	1,27,127
146	13. Total of same month last year.	464	1,471	1,935	1,56,932	1,477	1,54,234

	Up.	Down.	Total.		Rs. A.
14. Total number of boats plying cargo No.	27	107	134	Total tollage of month— 24 + 25 + 26 ...	1,353 15
15. Total number of boats plying passenger No.	1	1	2	Total tollage of same month last year ...	1,272 2
15½. Total number of empty boats No.	92	11	103		
16. Total registered tonnage, cargo Tons	605	1,612	2,217		
17. Total registered tonnage, passenger Tons	43	46	89		
17½. Total registered tonnage, empty Tons	393	50	443		
18. Ton-mileage ..	44,047	77,260	121,307		
19. Estimated value of cargo Rs.	62,536	61,377	1,23,913		
20. Number of passengers ...	564	624	1,188		
21. Rafts, bamboos C.ft.	.....	20,230	20,230		
22. Do., bullahs ..	.....	17,618	17,318		
22½. Do., firewood ..	...	46,750	46,750		
23. Estimated value of rafts Rs.	.....	5,312	5,312		
24. Tollage on boats ..	297-8-9	429-11-0	727-3-9		
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0		
26. Tollage on rafts ..	.....	170-11-9	170-11-9		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-87		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-2		

Memorandum of Tollage.			Rs. A.
1. Balance not recovered on the 1st of the month ..	...	...	236 4
2. Tollage per month ...	...	...	1,353 15
3. Total ...	...	...	1,590 4
4. Amount credited in the accounts of the month ...	...	...	1,210 3
5. Balance due at the end of the month ...	...	...	380 0

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
7	1. Grain	179	179	14,365	179	14,365	
	2. Cotton ...	2	1	3	4,960	3	4,960	
	3. Oilseeds ...	1	161	162	18,455	162	18,455	
	4. Salt ...	.....	.....	.....	.....	.....	.....
	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
	6. Metal ...	1	1	2	3,150	2	3,150	
	7. Building materials ...	42	165	207	1,430	56	80	
16	8. Miscellaneous ...	4	94	98	6,978	98	6,978	
8	9. Fuel ...	.....	.....	.....	.....	.....	.....
Rafts	10. Timber ...	.....	2	2	100	2	100
	11. Bamboos ...	.....	209	209	4,585	209	4,585
40	12. Total ...	50	812	862	54,023	711	52,673	
45	13. Total of same month last year.	103	789	892	68,492	811	66,868	
		Up.	Down.	Total.			Rs. A. P.	
4.	Total number of boats plying cargo No.	4	36	40	Total tollage of month— 24 + 25 + 26 ...		534 5	
5.	Total number of boats plying passenger No.	6	7	13				
6.	Ditto empty "	30	11	41				
16.	Total registered tonnage, cargo Tons	64	1,004	1,068	Total tollage of same month last year ...		518 12	
17.	Total registered tonnage, passenger Tons	162	168	330				
18.	Ditto empty "	112	45	157				
19.	Ton-mileage ...	9,635	16,429	26,064	Memorandum of Tollage.			
20.	Estimated value of cargo Rs.	8,464	40,934	49,338				
21.	Number of passengers ...	316	372	688	1. Balance not recovered on the 1st of the month ...		1 11	
22.	Rafts, bamboos C. ft.	.....	31,305	31,305	2. Tollage per month ...		534 5
23.	Do., bullahs "	.....	146	146			
24.	Estimated value of rafts Rs.	.....	4,685	4,685	3. Total ...		536 0
25.	Tollage on boats "	73-5-9	122 0-0	195 5 9				
26.	Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0	4. Amount credited in the accounts of the month ...		474 10 3	
27.	Tollage on rafts "	.....	124-15-6	124-15-6			
28.	Total tollage on boats per ton-mile	.....	.....	0-0-3			
29.	Total tollage on rafts per 100 cubic feet	.....	.....	0-6-4	5. Balance due at the end of the month ...		61 6 3

**ABSTRACT FOR THE MONTH OF DECEMBER 1889 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1889-90.						TRAFFIC, 1888-89.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
Orissa Circle.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Talunda Canal System ...	140	12	6	2,881	11	1	413	12	9	1,821	13	6	
Kendrapara Canal System ...	5,939	13	6	36,440	11	1	4,932	2	5	34,358	5	6	
High Level, Range I ...	707	8	9	5,232	9	4	445	14	0	4,270	13	6	
Ditto " II ...	184	4	9	2,112	12	0	149	13	6	1,754	15	0	
Ditto " III ...	53	9	6	978	2	9	38	3	6	803	7	0	
Jajepore Canal ...	13	14	3	80	1	11	9	7	11	57	14	9	
Total Orissa Circle	7,039	15	3	47,674	0	2	5,989	6	1	43,067	5	8	
South-Western Circle.													
Midnapore Canal ...	10,882	15	0	1,06,162	11	6	13,272	0	3	1,01,349	7	9	
Hidgeltee Tidal Canal ...	3,400	10	3	36,821	5	9	2,371	3	6	44,701	5	0	
Total South-Western Circle	14,283	9	3	1,42,984	1	3	15,643	3	9	1,46,050	12	9	
Sone Circle.													
Patna Canal System ...	1,561	8	9	18,294	7	9	1,321	13	3	19,370	14	9	
Arrah ditto ...	1,353	15	6	13,806	14	8	1,272	2	9	14,949	2	2	
Buxar ditto ...	534	5	3	5,268	5	8	518	12	0	6,775	11	6	
Total Sone Circle ...	3,449	13	6	37,369	12	1	3,112	12	0	41,095	12	6	
GRAND TOTAL ...	24,773	6	0	2,28,027	13	6	24,745	5	10	2,30,213	14	5	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1889-90.						TRAFFIC, 1888-89.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A.
High Level ...	928	1,061	1,009 10 3	5,619	5,837	7,115 4 6	517	759	525 10 10	3,711	2,722	4,127 7
Total Orissa Circle ...	928	1,061	1,009 10 3	5,649	5,867	7,115 4 6	517	759	525 10 10	3,711	2,722	4,127 7

TOTAL NAVIGATION RECEIPTS.

CANAL.	RECEIPTS, 1889-90.						RECEIPTS, 1888-89.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals	8,049	9	6	54,789	4	8	6,515	0	11	47,194	12	5	
Midnapore Canal	10,882	15	0	1,06,162	11	6	13,272	0	3	1,01,349	7	9	
Hidgelsee Tidal Canal	3,400	10	3	36,821	5	9	2,371	3	6	44,701	5	0	
Sone Canals	3,449	13	6	37,369	12	1	3,112	12	0	41,095	12	6	
Total	25,780	0	3	2,35,143	2	0	25,271	0	8	2,34,341	5	7	

CALCUTTA,
The 18th March 1890.

G. A. G. SHAW,.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.	
		Quantity—Tons.		Value.	Quantity.	Value.		
		Up.	Down.		Total.	Rupces.		Tons.	Rupces.
790	1. Grain ...	2,365	4,220	6,485	3,79,224	6,485	3,79,224	• 10 Maunds passed up on Matubhanga river.
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
11	3. Oilseeds ...	.....	125	125	16,100	125	16,100
233	4. Salt ...	2,069	.....	2,069	1,76,962	2,069	1,76,962
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
21	6. Metal* ...	89.44	11	100.44	62,175	100.44	62,175	
13	7. Building materials ...	92	31.63	123.63	3,162	123.63	3,162	
882	8. Miscellaneous ...	2,356	6,18.63	8,530.63	12,86,235	8,530.63	12,86,235	
79	9. Fuel ...	864	132	996	2,925	996	2,925	
108	10. Timber ...	880 c. ft.	33,400 c. ft.	34,280 c. ft.	1,01,520	34,280 c. ft.	1,01,520	
1	11. Bamboos ...	10 ..	.....	10 ..	6	10 ..	6
29 & rafts.	12. Total ...	{ 7,729.44 & 890 c. ft.	{ 10,700.26 & 33,490 c. ft.	{ 18,429.70 & 34,290 c. ft.	{ 20,28,309	{ 18,429.70 & 34,290 c. ft.	{ 20,28,309	
44 & rafts.	13. Total of same month last year	{ 7,463 & 241 c. ft.	{ 10,931 & 10,905 c. ft.	{ 18,394 & 11,146 c. ft.	{ 24,61,059	{ 18,394 & 11,146 c. ft.	{ 24,61,059	
		Up.	Down.	Total.	Rs. A. P.			
24	Total number of boats ply- ing cargo No.	1,049	980	2,029	Total tollage of month— 24+25+26 ... 10,462 1 0			
24	Empty boats, steamers. &c. No.	423	237	660	Total tollage of same month last year ... 10,053 5 0			
24	Total number of boats ply- ing passenger No.	589	621	1,210	Memorandum of Tollage.			
24	Ditto empty boats ..	25	15	40				
24	Total registered tonnage, cargo Tons	20,277	21,839	42,116				
24	Total registered tonnage, passenger Tons	291	226	517				
24	Ton-mileage	.....	.....	.....	1. Balance not recovered on the 1st of the month ... 457 1 6		
24	Estimated value of cargo Rs.	8,12,026	11,14,757	19,26,783	2. Tollage per month ... 10,462 1 0			
24	Number of passengers No.	2,135	1,738	3,873	3. Total ... 10,919 2 6			
24	Rafts, bamboos C. ft.	10	.....	10	4. Amount paid into treasury during the month ... 10,569 15 0		
24	Do., bullocks "	880	33,400	34,280	5. Balance due at the end of the month ... 349 3 6			
24	Estimated value of rafts Rs.	1,326	1,00,200	1,01,526				
24	Tollage on boats ..	4,430-3-6	5,399-8-0	9,829 11-6				
24	Compounded tollage on boats Rs.	.....	.....	.....	
24	Tollage on rafts ..	6-1-6	626-4-0	632-5-6				
24	Total tollage on boats per ton-mile ...	.....	.....	.....	
24	Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-13-6			

* Boats in these rivers do not pay per mile.

Abstract for the month of January 1890 as compared with the corresponding month of the previous year.

	1889-90.				1888-89.							
	During the month.			To end of the month.	During the month.			To end of the month.				
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.			
Tollage	10,462	1	0	1,67,874	12	9	10,053	5	0	1,75,687	1	2

CALCUTTA,
The 18th March 1890.G. A. G. SHAW,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		Revenue.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
295	1. Grain ...	2,439	616	3,055	1,25,307	3,055	1,25,307
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	5	.....	5	460	5	460
24	4. Salt ...	.....	196	196	22,300	196	22,300
7	5. Piece-goods ...	.....	34	34	6,800	34	6,800
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
15	7. Building materials ...	6	76	76	707	37	517
845	8. Miscellaneous ...	287	480	767	73,087	737	71,367
17	9. Fuel ...	21	131	152	1,374	116	1,124
rafts 6	10. Timber ...	482 c. ft.	130 c. ft.	612 c. ft.	574	612 c. ft.	574
" 15	11. Bamboos ...	275 "	225 "	500 "	91	500 "	91
1,205 } 20rafts }	12. Total ...	2,758 & 757 c. ft.	1,527 & 355 c. ft.	4,285 & 1,112 c. ft.	2,30,700	4,180 & 1,112 c. ft.	2,28,540
1,598 } 28rafts }	13. Total of same month last year	3,029 & 1,119 c. ft.	1,190 & 770 c. ft.	5,119 & 1,889 c. ft.	2,42,252	4,920 & 1,889 c. ft.	2,40,524
		Up.	Down.	Total.			Rs. A.
14. Total number of boats plying cargo No.		546	659	1,205	Total tollage of month—		
15. Total number of boats plying passenger No.		80	89	169	24+25+26 ...		6,158 7
16. Total registered tonnage, cargo Tons		5,817	4,808	10,625	Total tollage of same month last year ...		7,140 2
17. Total registered tonnage, passenger Tons		831	954	1,785	Memorandum of Tollage.		
18. Ton-mileage ...		179,890	170,147	350,037			
19. Estimated value of cargo Rs.		126,030	1,04,005	2,30,035			
20. Number of passengers No.		2,009	2,987	4,996			
21. Rafts, bamboos C. ft.		275	225	500			
22. Do., bullahs "		482	130	612			
23. Estimated value of rafts Rs.		490	175	665			
24. Tollage on boats "		3,153-10-6	2,981-11-3	6,135-5-9			
25. Compounded tollage on boats Rs.		.....	.....	.....
26. Tollage on rafts "		21-15-0	1-3-0	23-2-0			
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-3			
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	2-1-3			
					1. Balance not recovered on the 1st of the month		Rs. A. 6,511 9
					2. Tollage per month ...		6,158 7
					3. Total ...		12,670 1
					4. Amount paid into treasury during the month		7,988 4
					5. Balance due at the end of the month		4,681 12

Abstract for the month of January 1890 as compared with the corresponding month of the previous year.

	1889-90.		1890-91.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	6,158 7 9	49,392 0 9	7,140 2 0	53,159 14 0

CALCUTTA,
The 18th March 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of January 1890.

No. of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
1,922	1. Grain ...	38,071	74	38,145	38,145	37,14,607	* For details, see next page.
1	2. Cotton ...	14	.....	14	14	7,200	
10	3. Oilseeds ...	123	27	150	150	19,650	
837	4. Salt ...	483	6,154	6,637	6,637	6,50,387	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....
15	6. Metal ...	31	29	60	60	29,850	
116	7. Building materials ...	1,604	138	1,742	1,742	20,696	
2,704	8. Miscellaneous* ...	26,341	1,839	28,180	28,180	35,60,655	
509	9. Fuel ...	10,143	3,706	13,849	13,849	1,05,750	
...	10. Timber ...	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....
5,614	12. Total ...	76,810	11,967	88,777	88,777	81,08,795	* For details, see next page.
6,735	13. Total of same month last year.	92,503	9,177	101,680	101,680	91,60,970	
		Up.	Down.	Total.			
14.	Total number of boats plying cargo No.	5,012	602	5,614	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 55,492 0 9
14a.	Do. empty boats "	2,853	1,495	4,348			
15.	Total number of boats plying passenger No.	396	6	402	Total tollage of same month last year ...		62,571 4 9
16.	Total registered tonnage, cargo Tons	215,722	36,978	2,52,700	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	837	15	852			
18.	Ton-mileage ...	18,95,060	3,69,780	22,64,840			Rs. A. P.
19.	Estimated value of cargo Rs.	72,21,304	8,87,491	81,08,795	1. Balance not recovered on the 1st of the month ...		1,128 7 9
20.	Number of passengers No.	1,346	36	1,382	2. Tollage per month ...		55,492 0 9
21.	Rafts, bamboos C. ft.	...	.....	.....
22.	Do., bullaha "	...	.....	.....
23.	Estimated value of rafts Rs.	.....	.....	.....	3. Total ...		56,620 8 6
24.	Tollage on boats "	46,428-5-9	9,063-11-0	55,492-0-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...		54,328 7 0
26.	Tollage on rafts "	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.			C-0-4-70			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month ...		2,292 1 6

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.**

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
949	(a) Jute ...	22,132	62	22,194	28,01,412	22,194	28,01,412	
91	(b) Jaggery ...	545	.....	545	53,375	545	53,375	
1	(c) Sugar ...	.....	14	14	3,200	14	3,200	
1	(d) Tobacco ...	16	.....	16	3,150	16	3,150	
911	(e) Fish ...	259	.....	259	72,539	259	72,539	
16	(f) Hides ...	23	.....	23	5,270	23	5,270	
43	(g) Poultry ...	9	.....	9	7,209	9	7,209	
123	(h) Hay and straw ...	648	.....	648	9,080	648	9,080	
81	(i) Oil ...	18	1,249	1,267	1,77,425	1,267	1,77,425	
37	(k) Earthenware ...	74	15	89	1,245	89	1,245	
451	(m) Other miscella- neous ...	2,617	499	3,116	4,26,750	3,116	4,26,750	
2,704	Total Miscellaneous...	26,341	1,839	28,180	35,60,655	28,180	35,60,655	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of January 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.			REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.		
		Up.	Down.				Total.		Rupess.	Tons.	Rupess.
6,584	1. Grain ...	15,894	2	15,896	14,21,599	15,896	14,21,599	For details, see next page.
5	2. Cotton ...	25	.....	25	12,600	25	12,600	
9	3. Oilseeds ...	164	.....	164	20,425	164	20,425	
76	4. Salt ...	575	366	941	92,225	941	92,225	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	...	.....	.....	.....
223	7. Building materials ...	2,286	.....	2,286	9,706	2,286	9,706	
1,184	8. Miscellaneous* ...	3,811	123	3,934	3,94,880	3,934	3,94,880	
146	9. Fuel ...	2,210	52	2,262	17,638	2,262	17,638	
raft.	10. Timber ...	3,191 c. ft.	.....	3,191 c. ft.	7,977	3,191 c. ft.	7,977	
rafts.	11. Bamboos ...	64 "	.....	64 "	11	64 "	11	
227 & rafts.	12. Total ...	{ 24,965 & 3,255 c. ft.	543	{ 25,508 & 3,255 c. ft.	19,77,061	{ 25,508 & 3,255 c. ft.	19,77,061	
2025 & rafts.	13. Total of same month last year ...	{ 29,798 & 461 c. ft.	676	{ 30,474 & 461 c. ft.	21,25,081	{ 30,474 & 461 c. ft.	21,25,081	
		Up.	Down.	Total.				
Total number of boats plying cargo ... No.		8,146	81	8,227	Total tollage of month— 24 + 25 + 26 ...			Rs. A. P. 14,200 13 0
Do. empty boats ...		1,406	255	1,661	Total tollage of same month last year ...			16,389 4 6
Total number of boats plying passenger ... No.		592	24	616	<i>Memorandum of Tollage.</i>			
Total registered tonnage, cargo ... Tons		74,438	2,878	77,316				
Total registered tonnage, passenger ... Tons		1,574	135	1,709				Rs. A. P.
Ton-mileage ...		7,38,021	46,048	7,84,069	1. Balance not recovered on the 1st of the month ...			892 13 6
Estimated value of cargo Rs.		19,18,181	50,892	19,69,073	2. Tollage per month ...			14,200 13 0
Number of passengers No.		4,593	331	4,834	3. Total ...			14,593 10 6
Rafts, bamboos C. ft.		64	.....	64				
Do., bullahs ...		3,191	.....	3,191				
Estimated value of rafts Rs.		7,988	...	7,988				
Tollage on boats ...		13,440-6-6	738-6-6	14,178-13-0				
Compounded tollage on boats ... Rs		.....	.....	.....	4. Amount paid into treasury during the month ...			14,263 1 6
Tollage on rafts ...		22-0-0	.....	22-0-0				
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-47				
Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	0-10-9	5. Balance due at the end of the month ...			330 9 0

* For details, see next page.

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
14	(a) Jute ...	88	12	100	12,600	100	12,600	
112	(b) Jaggery ...	670	3	673	65,975	673	65,975	
...	(c) Sugar ...	.....	.....	.....	.....	.....	.....
7	(d) Tobacco ...	69	9	78	15,400	78	15,400	
257	(e) Fish ...	33	4	37	10,395	37	10,395	
...	(f) Hides ...	.....	.....	.....	.....	.....	.....
2	(g) Poultry ...	1	.....	1	128	1	128	
...	(h) Hay and straw...	.....	.....	.....	.....	...	.....
52	(j) Oil ...	510	12	522	73,125	522	73,125	
117	(k) Earthenware ...	104	19	123	1,718	123	1,718	
623	(m) Other miscellane- ous.	2,336	64	2,400	2,15,539	2,400	2,15,539	
1,184	Total Miscellaneous...	3,811	123	3,934	3,94,880	3,934	3,94,880	

**ABSTRACT FOR THE MONTH OF JANUARY 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1889-90.			TRAFFIC, 1888-89.		
	During the month.		To end of the month.	During the month.		To end of the month.
	Rs.	A. P.	Rs. A. P.	Rs.	A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	55,492	0 9	2,90,826 2 3	62,511	4 9	3,43,225 8 8
Tolly's Nullah ...	14,200	13 0	81,574 1 9	16,389	4 6	1,09,229 8 0
Total ...	69,692	13 9	3,72,400 4 0	78,960	9 3	4,52,455 0 3

Calcutta,
The 18th March 1890.

G. A. G. SHAW, *Under-Secretary to the Govt. of Bengal.*

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 15th March 1890,
as compared with the corresponding week of the previous year.*

NAMES OF CARGO.	WEEK ENDING SATURDAY, THE 15TH MARCH 1890.			WEEK ENDING SATURDAY, THE 15TH MARCH 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,079	1,98,925	3,139	695	1,98,615	3,421
Jute ...	83	64,425	1,155	63	37,350	649
Firewood ...	199	63,600	908	171	97,040	1,459
Other articles ...	902	2,70,195	3,954	1,006	2,43,960	3,975
Total ...	2,173	5,95,145	9,214	1,925	5,71,965	9,507

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the three weeks and four days ended 26th January 1890,
as compared with the same period of 1889.

STAPLES.	1889.		1890.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING.	No.		No.		No.		No.	
Horses, ponies, and mules	308	7,360	213	6,513	90	1,047		
Cattle	280	881	94	612	186	69		
Sheep and goats	3,323	3,071	2,400	2,134	923	837		
Other kinds			5	833			3	643
BORAX	6,615	5,158	4,084	3,075	2,529	2,083		
Canes and rattans	63	130	67	124			1	
Camelthorn (Indian-rubber)								
Chinese and Japanese ware	34	31	30	32			4	1
Coal and coke, up	6,26,639	2,34,008	7,16,000	2,41,429	1,10,360			6,420
Ditto, down	2,59,436	3,01,048	27,60,806	3,74,978				77,650
Cotton, raw	2,57,694	1,71,253	1,56,205	1,56,190	59,313	15,267		
Twist and yarn (European)	10,827	8,881	7,297	8,194			400	563
Ditto (Indian)	10,827	8,881	7,297	8,194			2,243	2,943
COTTON, MANU-FACTURED.	20,727	20,723	1,07,032	1,22,374			23,195	63,835
Piece-goods (European)	21,043	13,407	21,781	14,700			734	1,172
Ditto (Indian)	11	45	423	234			305	197
Drugs and MEDICINES.	1,701	1,590	2,240	1,900			404	336
Intoxicating drugs (other than opium, i.e., arsenic, blang, genja, and chara, &c.)	1,123	724	1,812	1,322			687	598
Indigo	5,645	6,204	6,469	6,307			2,616	3,169
Madder or manila	146	13	75	14	70	15		
Safflower	241	204	177	167	64	17		
Turmeric	7,873	4,230	6,820	3,818	1,053	721		
Other kinds	10,328	3,061	10,035	6,734			5,677	2,783
Earthenware and porcelain	556	790	460	615	94	161		
Jute, raw	60,608	11,039	59,447	7,462	561	4,477		
Do., manufactured (gunny-bags and cloths).	68,207	28,030	59,717	29,814			1,490	876
Other fibres, raw	22,035	6,251	31,456	10,437			8,521	4,188
Ditto, manufactured	8,207	1,650	1,108	440	5,899	1,150		
FRUITS & NUTS.	6,938	2,948	6,323	3,219			376	255
Coconuts	87,232	18,070	87,241	84,636			10	5,608
All other kinds	1,21,808	35,708	1,63,135	33,818			41,320	
Wheat	2,49,407	60,447	3,32,497	51,307	17,090	9,340		
GRAIN & PULSES.	6,69,474	1,08,778	10,14,294	2,27,085			3,44,820	1,18,310
Rice, husked	1,053	2,710	34,653	4,629			23,600	1,510
Do., unhusked	1,14,420	22,271	1,32,116	21,121			17,690	
Other rain and spring crops	22,175	31,660	12,789	24,012	2,386	12,057		
Government stores	3,401	2,863	3,690	1,977	371	376		
Gums and resins	63,073	30,667	71,293	50,339			17,000	20,272
HIDES & SKINS.	11,044	4,644	17,066	7,715			6,023	3,071
Hides of cattle								
Hides of sheep, goats, and small animals.								
Horns	1,782	1,341	1,221	687	561	704		
LAC	288	154	310	165			23	1
Do., shell	14,343	11,354	15,857	12,027			1,514	1,398
Do., stick and other kinds	23,980	6,684	41,903	13,255			17,924	6,691
LEATHER	2,041	3,083	2,390	4,480			386	497
Ditto, unmanufactured	2,072	3,453	2,672	4,115			800	631
Ditto, manufactured	13,800	12,838	14,866	12,434			766	
Liquors	433	197	400	195			33	
META	1,71,266	21,015	1,12,163	19,338	59,073	3,277		
Minerals	26,172	17,821	17,461	10,595	9,611	7,316		
METALS AND MANUFACTURES.	96,576	52,891	80,183	65,227	4,394			
Brass and copper	2,423	3,214	3,051	2,679	372	535		
Iron	81,253	44,452	64,315	26,090	27,710	18,363		
Other metals	39,396	40,018	48,818	49,182			10,313	9,186
Oil	20,332	2,087	2,504	2,000	17,728	31		
Opium	30,857	20,426	30,540	10,704	317	5,759		
Paints and colours	6,037	8,049	6,107	5,404			645	
Provisions	1,30,763	3,113	84,718	1,820	35,067	1,293		
Railway materials.	1,3,090	41,861	84,700	33,693	28,906	8,298		
Ditto ditto, Foreign	4,71,734	91,803	4,72,477	89,070			723	
Salt	62,683	29,546	60,018	27,354			1,665	3,923
SALTPETRE, &c.	6,316	2,117	6,090	1,920	2,026	197		
Salt-petre	65,783	10,783	1,63,073	59,813			97,290	32,530
Lime	95,994	22,462	89,014	10,082	6,980	2,770		
Mustard and rape	68,744	10,635	27,344	3,825	38,400	12,110		
SEEDS.	23,970	3,493	34,710	9,168			10,740	5,669
Til or linjolly	1,38,703	4,041	1,21,173	37,401	17,530	10,300		
OTHER SEEDS.	69,434	10,546	38,744	11,050	11,090	4,480		
Tea seed	3,493	2,353	1,837	1,361	1,656	872		
Other kinds	80	92	80	97			18	23
SILK	660	301	805	386	53	6		
Do., manufactured (European)	20,613	19,243	8,821	8,161	17,794	13,082		
Do., ditto (Indian)	1,30,816	13,040	1,34,633	19,601			3,730	5,853
Spices	1,32,414	9,833	1,29,017	21,984			30,603	12,133
SUGAR	4,91,276	67,480	3,03,651	63,123	37,624	14,357		
Sugar, refined	1,888	1,817	1,889	2,407			301	890
Do., unrefined							7	6
TEA								
Do., Indian								
Do., Foreign								
Tobacco	20,006	9,850	18,128	8,633	2,447	820		
WOOD	24,650	7,154	20,004	5,807	4,755	1,757		
Pine-wood	42,502	3,062	24,080	1,039	18,421	1,323		
Wool, raw	1,610	1,412	680	482			930	
Do., manufactured (Euro-pean)	264	437	200	422	64	15		
WOOL								
Wool, manufactured (Indian)	1,376	1,801	1,363	1,431	13	110		
Shawls							7,767	5,369
All other articles of merchandise	2,11,271	1,24,234	2,10,038	1,29,697				
Bones	60,424	11,101	23,747	3,156	17,077	8,945		
Potatoes	36,700	0,440	36,048	8,930			2,658	
Total	79,31,639	20,45,767	66,14,295	22,54,360	5,52,222	1,70,187	11,34,878	3,78,740

General remarks on the fluctuations of principal staples carried over the East Indian Railway during month ended 26th January 1890.

INCREASES.

Cotton.—The increase occurred chiefly in despatches from stations on the "C" and "D" districts to Howrah and Bombay for export.

Gram and Pulses.—This was chiefly in dall from Cawnpore to Howrah for local consumption; also in gram from Manhar and Piplund to Agra and Benares.

Government Stores.—Chiefly in Commissariat stores from Calcutta to Rawalpindi and Quetta.

Brass and Copper.—This increase was in the unmanufactured articles from Howrah to Mirzapur and Hathras, and in articles from Mirzapur.

Oil.—Chiefly in kerosine oil from Howrah to Patna and other stations.

Railway Material, Foreign.—This was in rails, sleepers, and other permanent-way material despatched from Howrah to Damooda and Umballa Cantonment for the Bengal-Nagpur and Delhi-Umballa-Kalka Railways.

Sugar.—The increase under this head was in chillies despatched from Mokameh and *via* Mokameh Ohât to Howrah and Burdwan, where the article was in good demand.

Sugar (refined and unrefined).—There was a decrease in refined sugar and an increase in the unrefined article or jaggree, causing a net increase, and this was due to considerable despatches from stations on the Dinapore district to Howrah due to the high price ruling in Calcutta for common sugar.

DECREASES.

Coal.—The decrease occurred in downward coal to Howrah for export. The traffic was exceptionally brisk in the corresponding period of last year.

Five-goods, European.—Chiefly in despatches from Howrah, there having been a falling off in the up-country demand; consignments from Bombay to Cawnpore *via* Jubbulpore also fell off owing to diversion of the traffic to the Indian Midland Railway route.

Rice (husked and unhusked).—The decrease in this staple occurred almost entirely in despatches from stations on the "A" and "B" districts to up-country stations, owing to there having been a demand for rice during the corresponding period of last year.

Hides.—The falling off under this head was chiefly in despatches to Howrah, due to short supplies.

Opium.—This traffic is regulated by the Opium Department, and the decrease was entirely in consignments to Howrah.

Seeds.—The decrease was chiefly in linseed, due to stocks being quite exhausted.

N. ST. L. CARTER, Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, 11th March 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, on 1,525½ miles open

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	224,112*	3,04,453 11 0	26,48,182 10	6,00,306 14 0	19,183 9 0	9,28,953 8 0	66,084	100,807	172,481
Or per mile of railway ...	146 9 6		306 13 6	393 13 6	12 9 2	604 15 2			
For previous 9 weeks of half-year ...	2,301,838	28,13,833 14 0	2,54,93,888 20	32,40,907 13 0	1,77,128 9 0	20,21,840 4 0	880,889	759,780	1,580,740
Total for 10 weeks ...	2,525,950	29,18,287 9 0	2,81,48,000 20	38,41,213 11 0	1,96,257 8 0	20,90,683 8 0	947,043	859,577	1,742,933
COMPARISON.									
Total for corresponding week of previous year ...	200,844	2,40,553 3 2	27,61,018 0	6,00,082 14 2	18,502 4 7	9,63,884 11 8	67,028	90,211	164,063
Per mile of railway corresponding week of previous year ...	131 8 10		307 4 10	397 4 10	10 14 0	631 4 8			
Total for corresponding date of previous year ...	2,503,404	29,29,229 10 2	2,74,10,126 0	30,74,266 8 2	1,82,808 8 9	22,06,204 5 2	880,754	960,737	1,810,491

* The decrease in coaching traffic is chiefly in 2nd class, and is apparently due to figures for the corresponding period of 1889 having included a portion of the "Nabran" mail traffic.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 6TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 6TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 6TH MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,03,230	681	1,525½	9,28,953	609	1,525½	4,17,64,180	588	1,525½	4,14,77,876	588	—	2,86,74

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 8th March 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	13,318	Rs. A. P. 6,147 0 0	Mds. c. 50,842 20	Rs. A. P. 3,096 8 0	Rs. A. P. 84 7 0	Rs. A. P. 9,276 15 0	1,792	609	2,401
per mile of railway ...	247	107 7 8	880 10	54 1 10	0 9 8	162 2 11	...	...	...
for previous 9 weeks of half-year ...	*107,786	57,076 0 0	43,29,901 0	21,411 8 0	1401 4 0	70,780 2 0	12,495	5,933	18,428
Total for 10 weeks ...	119,601	64,178 6 0	3,71,243 20	24,007 0 0	438 12 8	80,064 1 0	17,107	6,542	23,649
COMPARISON.									
Total for corresponding week of previous year ...	16,487	9,791 11 7	21,701 20	1,573 14 0	77 0 6	11,442 10 1	2,129	394	2,523
per mile of railway corresponding week of previous year ...	300	171 2 11	870 20	27 8 8	1 5 7	200 0 9	...	...	...
Total to corresponding date of previous year ...	127,264	73,045 12 8	3,08,517 0	17,300 0 0	611 15 8	70,228 12 6	13,910	5,128	19,038

* Deducted number of passengers 1,327 and Rs. 1,103 }
 † Added mounds 4,423 and " 307 } on account of difference between the approximate and audited returns to week ended 25th January 1890.
 ‡ Deducted " 23 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 9TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 8TH MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 11,433	Rs. 203	57½	Rs. 9,277	Rs. 163	57½	Rs. 4,38,903	Rs. 164	57½	*4,71,158	Rs. 161	12,175	...

* Deducted Rs. 633 on account of difference between the approximate and audited figures to week ended 25th January 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	21,438	Rs. A. P. 5,751 4 0	Mds. c. 19,565 20	Rs. A. P. 634 3 0	Rs. A. P. 12 12 8	Rs. A. P. 6,397 3 0	871	97	968
per mile of railway ...	258	258 7 0	...	28 7 4	0 9 2	287 9 3	...	...	...
for previous 9 weeks of half-year ...	*183,042	48,415 11 0	11,21,432 20	16,174 14 0	264 1 0	48,634 10 0	7,471	767	8,238
Total for 10 weeks ...	204,479	54,180 12 0	1,41,018 20	4,808 1 0	76 13 0	53,051 13 0	8,342	864	9,206
COMPARISON.									
Total for corresponding week of previous year ...	26,041	6,431 4 0	8,249 20	311 9 0	6 0 6	6,940 0 0	908	63	971
per mile of railway corresponding week of previous year ...	...	288 8 8	...	14 0 0	0 4 9	307 13 5	...	...	...
Total to corresponding date of previous year ...	221,449	57,531 4 0	24,088 10	2,314 8 0	64 13 3	60,910 7 0	9,013	645	9,658

* Added number of passengers 267 and Rs. 63 }
 † Ditto mounds 1,500 and " 13 } on account of difference between the approximate and audited returns to week ended 25th January 1890.
 ‡ Ditto " 3 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 9TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 8TH MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
22½	Rs. 6,510	Rs. 298	22½	Rs. 4,397	Rs. 206	22½	Rs. 2,67,708	Rs. 240	22½	*2,69,723	Rs. 238	...	8,067

* Added Rs. 78 on account of difference between the approximate and audited figures to week ended 25th January 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. Dacca, K. AND D., AND ASSAM-BHAR SECTIONS.)

Approximate Return of Traffic for week ended 1st March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	148,390	81,520 0 0	8,14,000 0	1,08,340 0 0	34,500 0 0	3,08,340 0 0	22,173	22,942	60,115
Or per mile of railway ...	198	109 0 0	1083	147 0 0	46 0 0	412 0 0	29	31	60
For previous 5 weeks of half-year ...	1,201,810	6,14,810 0 0	67,18,370 0	8,09,500 0 0	1,32,330 0 0	17,18,000 0 0	174,864	248,515	423,379
Total for 6 weeks ...	1,348,100	6,96,330 0 0	75,32,400 0	10,71,800 0 0	1,66,810 0 0	19,24,140 0 0	197,037	271,457	468,494
COMPARISON.									
Total for corresponding week of previous year ...	149,377	87,544 0 0	8,71,048 0	82,720 0 0	31,500 0 0	3,61,872 0 0	22,802	23,103	45,905
Or per mile of railway corresponding period of previous year ...	200	120 0 0	1168	110 0 0	42 0 0	495 0 0	30	31	61
Total to corresponding date of previous year ...	1,201,297	7,12,551 0 0	74,50,242 0	8,39,211 0 0	1,59,571 0 0	17,02,883 0 0	182,972	224,760	407,732

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 1ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 1ST MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
433	Rs. 2,01,173	Rs. 200	747	Rs. 1,08,340	Rs. 279	673	Rs. 99,45,322	Rs. 283	737	Rs. 1,08,89,230	Rs. 207	Rs. 7,42,000	Rs.

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	26,570	10,430 0 0	54,510 0	3,080 0 0	80 0 0	13,590 0 0	3,736	2,115	5,851
Or per mile of railway ...	213	83 0 0	471 0	24 0 0	1 0 0	108 0 0	29	17	46
For previous 5 weeks of half-year ...	219,150	80,450 0 0	2,73,940 0	22,130 0 0	600 0 0	1,03,180 0 0	22,226	14,674	36,900
Total for 6 weeks ...	232,720	90,870 0 0	2,92,550 0	25,150 0 0	680 0 0	1,16,700 0 0	22,022	16,810	38,832
COMPARISON.									
Total for corresponding week of previous year ...	26,922	10,078 0 0	57,452 0	3,346 0 0	124 0 0	14,548 0 0	3,784	1,937	5,721
Or per mile of railway corresponding period of previous year ...	215	80 0 0	459 0	27 0 0	1 0 0	116 0 0	29	16	45
Total to corresponding date of previous year ...	242,008	97,891 0 0	4,67,340 0	22,498 0 0	4,048 0 0	1,14,587 0 0	22,625	14,800	37,425

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 1ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 1ST MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
125	Rs. 10,430	Rs. 116	125	Rs. 10,078	Rs. 105	125	Rs. 4,60,006	Rs. 110	125	Rs. 4,74,151	Rs. 110	Rs. 15,400	Rs.

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,830	7,040 0 0	24,420 0	2,370 0 0	270 0 0	9,640 0 0	2,440	0	2,440
Or per mile of railway ...	213	82 0 0	282 0	28 0 0	3 0 0	112 0 0	28	0	28
For previous 8 weeks of half-year ...	126,480	44,044 0 0	2,33,250 0	23,560 0 0	1,540 0 0	73,560 0 0	19,778	0	19,778
Total for 8 weeks ...	144,520	51,084 0 0	2,57,670 0	25,730 0 0	1,810 0 0	82,940 0 0	21,228	7,632	28,860
COMPARISON.									
Total for corresponding period of previous year ...	18,810	8,570 0 0	14,501 0	1,034 0 0	84 0 0	9,688 0 0	2,489	0	2,489
Per mile of railway corresponding period of previous year ...	219	98 0 0	166 0	12 0 0	1 0 0	78 0 0	28	0	28
Total to corresponding date of previous year ...	157,871	42,400 0 0	1,07,270 0	10,640 0 0	1,446 0 0	54,676 0 0	21,470	8,904	30,374

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 1ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 1ST MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
80	4,800	78	84	9,690	113	80	2,78,050	67	86	*3,08,518	80	90,468	.....

* Audited up to week ending 31st December 1889.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th March 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	41,246	10,420 0 0	2,59,101 0	28,414 0 0	3,323 0 0	48,567 0 0	6,023	0,236	6,259
Or per mile of railway ...	151	38 0 0	949 0	104 0 0	12 0 0	178 0 0	22	0	22
For previous 8 weeks of half-year ...	428,408	1,84,304 0 0	23,24,303 0	2,07,364 0 0	31,400 0 0	4,63,594 0 0	40,537	83,321	123,858
Total for 8 weeks ...	469,654	2,00,724 0 0	25,83,604 0	2,08,168 0 0	32,143 0 0	5,32,469 0 0	50,560	91,567	142,127
COMPARISON.									
Total for corresponding week of previous year ...	45,907	17,160 0 0	1,38,000 0	13,402 0 0	2,819 0 0	32,367 0 0	5,469	6,327	11,796
Or mile of railway corresponding week of previous year ...	168	63 0 0	500 0	43 0 0	1 0 0	109 0 0	20	0	20
Total to corresponding date of previous year ...	401,238	1,83,200 0 0	13,51,000 0	1,23,094 0 0	20,071 0 0	3,10,930 0 0	34,929	54,830	89,759

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 2ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 2ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 8TH MARCH 1890.			Total increase in 1888-89.	Total decrease in 1888-89.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
80	83,367	110	878	46,861	178	803*83	18,60,423	125	873	20,19,008	187	4,58,572	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

						Rs.
Approximate earnings for week ending 22nd February 1890	...	...	...	...	...	9,597
Corresponding period of 1889	...	...	...	...	...	9,021
Increase	...	...	...	...	...	576
						Rs. A. P.
Receipts per mile for week ending 22nd February 1890	...	...	...	...	...	188 2 10
Corresponding period of 1889	...	...	...	...	...	176 14 4
Increase	...	...	...	...	...	11 4 6
Receipts from 1st January to 22nd February 1890	...	...	...	...	...	50,911
Corresponding period of 1889	...	...	...	...	...	50,787
Increase	...	...	...	...	...	8,124

[REGISTERED No. 99.]

No. 13 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 28, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
1	Burdwan March 22, '90 Ranigunge ...	0.33 0.23	Weather—getting warmer. Prospects of crops continue favourable. Sugarcane is being pressed, and wheat and barley harvested. Prices of common rice:— <div style="float: right; text-align: right;"> Srs. Burdwan 18 Culna 16 Ranigunge 19½ } per rupee. </div>
2	Bankura .. 22, '90	Nil	Weather—hot. Pressing of sugarcane still continues. Standing crops, such as cotton and <i>khasta til</i> , are doing well. Common rice selling at 21 seers per rupee at Sudder and 20 seers at Bishenpore.
3	Birbhum .. 22, '90 Bampos Hast ...	Nil 0.33	Weather—hot. There are now no crops to report on except wheat, which is very well. Price of common rice from 16 to 20 seers per rupee.
4	Midnapur .. 22, '90	0.46	Weather—seasonable. Days hot. The rain has softened the ground for ploughing operations. Indigo doing well. Prices of common rice:— <div style="float: right; text-align: right;"> Srs. Sudder 19 Contai 19 Tanluk 16 Ghatal 18 } per rupee. </div>
5	Hughly .. 22, '90 Jehanabad ...	0.34 0.22	Weather—seasonable with clouds and southerly winds. Prospects of crops good. Prices of common rice:— <div style="float: right; text-align: right;"> Srs. Sudder 12½ Serampore 16 Jehanabad 17 } per rupee. </div>
	Howrah .. 22, '90 Uluberia ..	Nil 0.06	Weather—days warm, but nights cool. Prospects of crops good, but rain wanted.
<i>Central Districts.</i>			
6	24-Pergha. March 22, '90	Nil	Weather—dry and hot. Prospects good on the whole, but rain is wanted for the benefit of such crops as there are on the ground, especially <i>boro</i> rice in the Diamond Harbour subdivision. Lands are being prepared for <i>aus</i> rice in parts of the district. Price of common rice 14 to 15 seers per rupee.
7	Nudda .. 22, '90 Koochta ...	Nil 0.22	Weather—cloudy. Harvesting of wheat, barley, gram, linseed, <i>masuri</i> , and sugarcane going on. Ploughing for early rice begun. Rain needed.
8	Khoolna .. 22, '90	0.06	Weather—seasonable. Condition of <i>boro</i> and <i>rubbi</i> crops good, but some rain wanted.
9	Jessore .. 22, '90	Nil	Weather—hot and cloudy. Rain wanted for cultivation. Harvesting of <i>rubbi</i> crops nearly over. Outturn good in Jhenidah and Bongong, but below the average in Magura and Narail.
10	Moorehabad .. 22, '90 Kandi ...	Nil 0.55	Weather—getting hot. Harvesting of <i>rubbi</i> progressing favourably.
11	Minagepur .. 22, '90	Nil	No rain, but clouds floating about. Strong wind prevails. Weather rather hot. Ploughing for <i>khadoi</i> going on. Sowing of jute and planting of sugarcane cuttings commenced. Prices stationary.
12	Rajahmhye .. 22, '90 Nattore ...	Nil 0.02	Weather—getting very hot every day. Rain much wanted. Tobacco is yielding only an 8-anna outturn all round. <i>Khaddi</i> crops giving a fair return, about 12 annas. Agricultural operations retarded for want of rain.
13	Nowgong .. 22, '90 Rangpur ...	0.10 0.04	Storms of wind and rain on the 20th, but their incidence was partial. The rain of the 20th and 21st has done great good where it has fallen in sufficient quantity. <i>Aus</i> rice and jute sowings are progressing rapidly. More general rain is urgently wanted or a drought must occur.
14	Bogra .. 22, '90 Nowkhilla ...	0.81 1.54	Weather—seasonable. Sowing of <i>aus</i> and other early crops has commenced. State of standing crops good. <i>Khassari</i> , <i>masur</i> , and <i>cheena</i> being reaped. Sugarcane being cut. Common rice selling at 16 seers per rupee.
15	Pubna .. 22, '90	0.43	Local showers in many places. <i>Cheena</i> and <i>khon</i> crops and ploughing operations benefited by the rain. Prices somewhat high.
16	Darjeeling .. 22, '90	0.06	Weather—getting daily warmer. Wheat and barley doing well. Prospects generally good.
17	Calpigoree .. 22, '90	Nil	Weather—getting hot. High west wind prevailing. Land for <i>khadoi</i> crops being prepared. Rain wanted. Winter crops being reaped; average outturn expected. No significant change in prices of food-grains.

No.	District and date of return.	Rainfall at Sadar Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Divs.	18 Dacca March 22, '90	2-52	Weather—warm during the day time. Heavy rain in the Sadar subdivision. Cutting of sugarcane and pulses nearly finished. Rain has done good to <i>boro</i> paddy and other standing crops. Sowing of jute and <i>aus</i> paddy going on. Podder is available. Common rice 13 to 16 seers per rupee.
	19 Farreedpur .. 22, '90	2-33	Weather—seasonable. Rain has improved the condition of the standing crops. Land is being sown with <i>aus</i> and jute. Prices of common rice:— Brs. Sudder 14 Goulundo 16 Madariyer 15 } per rupee.
	20 Backergunge .. 22, '90	0-22	Weather—hot and cloudy with occasional thunderstorms. Prospects of <i>rubbi</i> crops fair. Rice selling at 18 seers per rupee.
	21 Mymensingh .. 22, '90	2-16	Weather—seasonable. Heavy rain on the 17th and 19th. Rain of the 17th was accompanied by hail. Prospects of crops good. Rain has done much good to crops, and has facilitated cultivation. Common rice sells at 13½ seers per rupee.
	22 Chittagong .. 22, '90	2-23	Weather—seasonable. No agricultural operations going on at present. State of chillies fair. Common rice selling at 17 seers per rupee.
Chittagong Divs.	23 Noakholly .. 22, '90	3-06	Weather—cloudy and rainy. Harvesting of <i>rubbi</i> crops nearly completed. Preparation of soil for <i>aus</i> progressing. Rain has done much good. Hail did some damage in Sundip.
	24 Tipperah .. 22, '90	0-07	Weather—hot and cloudy with high winds. <i>Boro</i> paddy thriving. Land being prepared for jute, <i>aus</i> , and <i>amua</i> .
	25 Chittagong Hill Tracts. ...	...	Report not received.
BEHAR.	Hill Tipperah .. 22, '90	3-27	Weather—hot and cloudy. Heavy downpour on 18th. Cultivation of lands going on for <i>aus</i> paddy. <i>Jute</i> still being cut.
	26 Patna .. 22, '90	Nil	Weather—hot. Harvesting of <i>rubbi</i> crops continues. Collection of opium almost finished. Prospects favourable. Prices of food-grains almost stationary.
	27 Gya .. 22, '90	0-15	Weather—hot. Harvesting of <i>rubbi</i> crops continues. Extraction of opium nearly finished. Prices of food-grains stationary.
	28 Shahabad .. 22, '90	Nil	Weather—occasionally cloudy. Winds variable in direction and intensity. <i>Rubbi</i> still being harvested. Transplanting of sugarcane going on. Opium harvest completed. Prices generally stationary, but falling in Sasaram.
PARA Divs.	29 Durbhanga .. 22, '90	Nil	Strong winds prevailing. Harvesting of <i>rubbi</i> continues. Paddy and <i>mung</i> being sown. Indigo germinating well. Prices almost stationary.
	30 Masumperpur .. 22, '90	Nil	Weather—warm and occasionally cloudy. <i>Rubbi</i> harvest continues. Indigo doing well. Opium outturn will probably be somewhat less than the average. About ¼ of the rice lands has been sown. <i>Mung</i> and <i>channa</i> also being sown.
	31 Barna .. 22, '90	Nil	Weather—warm, overcast at times. <i>Rubbi</i> harvesting nearly completed. Wheat about a 16-anna crop. Sugarcane sowings probably more than normal, as prices are good. Poppy prospects not very good. Indigo prospects indifferent.
	32 Bhuparua .. 22, '90	Nil	Weather—clear; getting hot; west wind blowing. Reaping of <i>rubbi</i> and collection of opium continue. Paddy and <i>channa</i> being sown. Price of common rice 18 seers per rupee at Motihari.
BAGALPORE Divs.	33 Monghyr .. 22, '90	...	Weather—getting hot; cloudy at times. A strong west wind with a light shower on the night of the 21st. Harvesting of <i>rubbi</i> in full progress; outturn good. Prices stationary.
	34 Bhagalpur .. 22, '90	Nil	Weather—seasonable. <i>Rubbi</i> being harvested. Rain wanted for preparing lands for <i>baadoi</i> .
	35 Purneah .. 22, '90	Nil	Strong westerly wind. Harvesting of <i>rubbi</i> crops progressing satisfactorily. Cultivation for <i>baadoi</i> crops proceeding. Westerly winds doing some injury to young indigo. A good mango crop expected.
	36 Maldah .. 22, '90	0-01	Weather—getting very hot. Strong west wind; occasionally cloudy, but no rain. Harvesting of <i>rubbi</i> crops continues. Rain much wanted for <i>boro</i> paddy. State of mulberry not favourable. Common rice selling at an average of 17½ seers per rupee.
	37 Sonthal Perghe. Jamtara .. 15, '90	0-02 0-5	Weather—seasonable. <i>Rubbi</i> harvest still continues. In Deoghur rain wanted for sugarcane. Mango crop promises well. <i>Moses</i> in flower. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack March 22, '90	1.31	Weather—mornings foggy, days warm. Tobacco being reaped; outturn estimated at 12 annas. Harvesting of mustard completed, the average outturn being estimated at 8 annas. Price of coarse rice has slightly risen during the week.
	39 Poonoo ...	...	Report not received.
	40 Balasore .. 22, '90	0.05	Weather—seasonable. There are few crops on the ground. The outturn of sugarcane has been from 12 to 13 annas.
CHOTA NAGPORE			
South-West Frontier Agency.			
CHOTA NAGPORE DIV.	41 Hazaribagh March 22, '90	Nil	Weather—seasonable. Crops doing well. Sugarcane being transplanted. <i>Rahar</i> being harvested. Exudation of opium not so good as was expected.
	42 Lohardugga .. 22, '90	0.12	Weather—days getting warmer, but nights cool. Harvesting of <i>rabbi</i> crops continues. Prospects of crops fair in Palamow. Fields for sugarcane plantations are being prepared everywhere. Mango fruit forming. <i>Molua</i> being gathered.
	43 Singhbhum .. 22, '90	0.11	Thunderstorms accompanied by slight rain. Weather getting warm. <i>Molua</i> damaged to some extent in Dhulbhum pergunnah; other crops favourably reported on.
	44 Manbhum .. 22, '90	0.19	Weather—seasonable. Sugarcane still being pressed; probable outturn 16 annas. Spring crops doing well. Prospects of <i>molua</i> and mango crops good. Coarse rice selling at from 20 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 25th March, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

**PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
16TH MARCH 1890.**

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLTM. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	14 0	14 8	14 8				13 8	14 4	15 0	16 14	16 11	17 10						
2	Bankura	15 0	15 0	12 12	17 0	16 0	16 0	17 8	18 0	17 8	20 0	20 0	20 0						
3	Boerghoom ...	16 0	14 0	11 4				13 8	13 8	13 8	18 0	18 0	16 8						
4	Midnapore	13 0	13 0	10 0				15 8	16 0	16 0	20 0	20 0	20 0						
5	Hoochly	13 0	13 0	13 0				8 0	8 0	10 0	14 0	14 0	13 0						
	Howrah							11 8	11 8	12 0	14 8	14 8	16 0						
Central Districts.																			
	Calcutta	13 6	13 10	15 0	16 2	17 1	17 11	9 1	9 8	10 0	13 14	14 1	14 10	21 5	21 5	17 9			
6	24 Pargunnahs	14 8	14 8	14 0	20 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	16 8						
7	Nudda	15 0	15 0	16 0	17 12	17 12	22 13	12 13	12 5	13 5	14 9	14 9	16 4						
8	Khoolna							12 8	14 0	14 0	14 0	16 0	16 0						
9	Jessore	12 12	12 12	13 0				9 0	9 0	13 0	15 4	16 0	16 0						
10	Moorebadhat	16 0	16 0	14 0				12 0	13 0	14 0	16 0	17 0	17 0						
11	Dinapore	19 4	19 4	11 4	20 10			9 9	15 0	15 0	17 0	19 0	19 3						
12	Rajshahye	16 8	16 8	15 0	26 4	26 4	37 8	13 8	13 8	13 8	16 12	15 0	15 0						
13	Rangpore	14 8	14 8	12 4				9 6	9 7	10 8	14 8	14 8	16 0						
14	Boysa	12 0	Host. 2 0 Com. 16 8	13 8				12 0	12 0	13 8	18 0	18 0	19 8						
15	Putna	13 8	17 4	19 8				6 12	6 14	8 0	14 4	16 14	18 0						
16	Darjeeling	10 0	10 0	10 0	9 0	9 0	10 0	5 0	5 0	6 0	12 0	12 0	12 0						
17	Julpigoree	13 0	14 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	15 0	15 0	17 8						
Eastern Districts.																			
18	Dacca	13 0	13 0	15 8	16 0	16 0	16 0	14 0	13 0	16 0	15 0	14 0	17 0						
19	Furzedpore	12 0	12 0	16 0	14 0	14 0	20 0	10 0	10 0	9 0	15 0	14 0	16 0						
20	Backergunge							12 4	12 4	13 4	13 12	13 12	14 12						
21	Mymensingh	11 8	11 8	10 0				10 0	10 8	13 0	13 0	14 0	18 0						

A In subdivisions retail prices of salt per rupee are:—Chittagong 10 seers, Cutwa 10 seers, Chittagong, and Haimong 9½ seers.

B At Rampore Hau retail price of salt 9 seers per rupee.

C In subdivisions retail prices of salt per rupee are:—Chittagong 9 seers, Tumlook 8 seers, and Chittagong 10 seers.

D In subdivisions retail prices of salt per rupee are:—Rampore 10 seers and Haimong 10 seers.

E In subdivisions retail prices of salt per rupee are:—Barisal 9 seers, Barisal 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barisal 9 seers, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupee are:—Koochit 10 seers, Meherpore 10½ seers, Chooadanga 9 seers, and Barisal 9 seers.

G In subdivisions retail prices of salt per rupee are:—Koochit 10 seers and Barisal 8 seers.

H In subdivisions retail prices of salt per rupee are:—Jharkhand 9 seers, Magrahat 9 seers, Barisal 9 seers, and Haimong 10 seers.

I In subdivisions retail prices of salt per rupee are:—Lalbagh 10 seers, Jungpore 10 seers, and Kandi 10 seers.

BEERS OF 80 TOLAHB.

RAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>idum.</i>)			MARUA OR RAB. (<i>Eleusine Coracana.</i>		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

[illegible][illegible]

11	000	000	000	000	000
10	000	000	000	000	000
00	000	000	000	000	000
01	000	000	000	000	000
02	000	000	000	000	000

KANGNI OR KAKUN, ITALIAN MILLET. (<i>Sesaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer ariselinum</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	19 0	19 0	21 0	...	...	...
...	17 8	17 8	14 3	...	...	...
...	18 0	18 0	11 12	...	...	...
...	16 0	16 0	14 8	...	...	...
...	16 0	16 0	13 9	...	...	...
...	17 8	16 8	16 0	...	...	...

11 0	11 0	20 9	16 12	16 12	16 13	...	...	...	...
6 12	6 8	16 0	20 0	28 13	16 0	...	...	...	...
...	...	...	21 54	20 0	24 10	...	...	...	...
...	...	...	12 0	13 0	10 8	...	...	...	...
...	...	...	16 0	16 0	15 0	...	...	...	...
...	...	...	23 0	23 0	16 0	...	...	...	...
...	...	...	14 12	15 0	13 4	...	...	...	...
...	...	...	21 12	19 8	24 0	...	...	...	...
...	...	...	16 0	16 0	10 0	...	...	...	...
...	...	...	12 0	12 0	12 0	...	...	...	...
...	...	...	17 4	17 4	13 4	...	...	...	...
...	...	...	10 0	10 0	11 0	...	...	...	...
...	...	...	13 0	13 0	11 8	...	...	...	...

...	...	...	13 0	13 0	13 0	...	...	...	...
...	...	...	12 0	11 0	16 0	...	...	...	...
...	...	...	16 0	16 0	12 13	...	...	...	...
...	...	...	14 0	14 8	13 0	...	...	...	...

Head-quarter Station Bazars of the Districts of Bengal on the 15th March 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.									
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.							
BENGAL.																					
Western Districts.																					
...	20 0	28 0	19 0	00 0	100 0	107 10 0	A 10 0	10 0	10 2	3 11 0	3 10 6	3 11 6	Burdwan.						
...	20 0	20 0	18 0	180 0	28 10 0	28 10 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.						
...	19 8	12 0	...	160 0	160 0	160 0	B 10 8	10 8	9 12	3 10 0	3 10 0	3 13 0	Beerbhoom.						
...	14 0	13 8	20 0	160 0	6 10 0	160 0	C 10 3	10 3	10 4	3 14 0	3 14 0	3 14 0	Midnapore.						
...	11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 11 6	3 11 6	4 6 0	Hooghly.						
...	13 4	13 4	18 0	100 0	100 0	100 0	10 0	10 0	10 8	3 12 0	3 12 6	3 11 0	Howrah.						
Central Districts.																					
...	18 12	15 10	17 7	17 8	16 8	100 0	100 0	98 2 10 4	10 2	10 5	3 9 8	3 10 2	3 9 6	Calcutta.					
...	18 0	18 0	18 8	100 0	10 0	100 0	10 0	10 4	3 9 0	3 9 6	3 10 0	24-Pergunnahs.					
...	17 12	20 0	20 0	9 13	9 2	9 2	3 18 0	4 0 0	3 14 0	Nuddea.					
...	16 160 0	16 0	G 9 0	9 5	9 2	4 4 0	4 4 0	4 0 0	Khoolna.						
...	16 0	13 0	22 0	160 0	16 0	160 0	9 2	9 4	9 2	4 0 0	4 0 0	Jessore.					
...	18 0	19 0	22 0	200 0	20 0	200 0	10 12	10 12	10 0	3 12 0	3 12 0	4 0 0	Moorshedabad.				
...	19 6	13 0	12 12	160 0	16 0	160 0	9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	Dinapore.				
...	20 4	20 0	24 9	240 0	24 0	240 0	9 0	9 0	9 0	4 2 8	4 2 8	4 0 0	Rajahshye.				
...	9 7	9 7	13 0	100 0	100 0	120 0	8 14	8 14	9 8	4 8 0	4 8 0	4 4 0	Rungpore.				
...	20 0	90 0	98 0	9 0	9 0	8 4	4 4 0	4 4 0	4 5 4	Bogra.					
...	20 0	20 10	23 4	2 0	2 0	100 0	10 0	9 8	9 2	4 0 0	4 0 0	4 0 0	Pubna.				
...	12 0	120 0	12 0	8 0	8 0	8 0	5 0 0	5 0 0	...	Darjeeling.					
...	18 0	12 0	0 0	128 0	128 0	128 0	9 0	9 0	9 0	4 2 0	4 2 0	4 2 0	Julpigore.				
Eastern Districts.																					
...	14 0	14 0	16 0	16 0	160 0	120 0	P 9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	Dacca.				
...	11 0	10 0	12 0	120 0	120 0	120 0	9 0	9 0	9 0	4 2 0	4 4 0	4 0 0	Furzedpore.				
...	11 4	11 0	13 4	120 0	120 0	120 0	10 2	10 5	10 10	3 15 0	3 14 0	3 13 0	Backergunge.				
...	R 9 0	9 0	9 8	4 5 0	4 4 0	4 4 0	Mymensingh.				

In Thakurgaon subdivision retail price of salt 8 seers per rupee.
 In subdivisions retail prices of salt per rupee are:—Natore 9 seers and Nowgong 9 seers 9 chittacks.
 In subdivisions retail prices of salt per rupee are:—Gaibanda 8½ seers, Nilphamari 9 seers.
 At Sainjanga retail price of salt 9½ seers per rupee.
 At Siliguri wholesale price of salt Rs. 4-4 per maund.
 At Kailash in the Alipore subdivision retail price of salt 8 seers per rupee.
 In subdivisions retail prices of salt per rupee are:—Moulvibazar 8 seers, Moonsahogunge 8½ seers, and Naraingunge 10 seers.
 In subdivisions retail prices of salt per rupee are:—Patnakhali 9 seers, Faragapore 9 seers, and Bhola 8 seers.
 In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Jamalpore 8 seers, Shoropore 8 seers, and Notrokon 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

		QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)		
Number.	DISTRICTS	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
Eastern Districts—concluded.																
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	12 0	16 8	15 10	15 0	...	...	...
23	Noakholly ...	...	...	...	...	...	...	15 0	14 0	14 0	16 0	16 0	15 0	...	...	...
24	Tipperah ...	12 4	12 5	12 8	...	...	...	Gobindabag. 10 0	10 0	10 0	14 9	14 9	18 0	...	...	...
25	Chittagong Hill Tracts. Hill Tipperah...	...	...	...	...	...	...	11 7	11 7	11 6	13 5	13 5	12 10	...	...	...
		6 0	6 0	6 0	...	...	...	9 0	9 0	9 0	15 0	15 0	18 0	...	...	...
BEHAR.																
26	Patna ...	16 8	Red. 17 8	...	22 8	25 0	22 0	10 8	10 8	11 0	19 8	19 8	16 8	22 0	22 0	25 0
27	Gya ...	13 8	White. 15 8	18 0	20 4	22 0	21 0	11 0	11 8	9 0	17 0	17 0	15 0	...	...	...
		16 0	15 0	16 8	...	...	...	...	...	...	...	...	...	...	...	...
28	Shahabad ...	14 0	15 0	14 8	20 0	18 0	25 0	9 0	8 0	9 0	16 0	16 0	15 0	20 0	21 0	20 0
29	Darbhanga ...	15 6	14 4	14 4	22 0	22 0	...	11 0	11 0	10 9	18 8	18 11	14 4	...	...	...
30	Mounierpore ...	13 0	15 0	13 0	...	20 0	...	9 0	9 0	9 8	16 0	17 0	13 0	...	...	...
31	Saran ...	15 8	15 0	16 0	20 0	...	25 8	9 4	9 4	8 12	16 14	16 13	14 4	...	...	...
32	Chumbarua ...	13 8	14 0	13 0	20 0	28 0	14 0	8 0	8 0	7 0	17 0	18 0	13 0	...	...	...
33	Monghyr ...	17 13	18 6	15 12	19 11	18 5	26 4	15 12	15 12	12 9	16 12	17 5	15 8	...	...	...
34	Bhagulpore ...	16 6	16 6	15 12	20 3	20 3	15 2	Old. 11 6	11 6	13 14	Old. 13 14	13 14	15 2	...	...	...
								New. 15 2	15 2		New. 17 11	17 11				
35	Purneah ...	14 0	18 0	13 0	...	...	11 0	13 0	18 0	15 0	19 0	19 0	16 0	...	...	...
36	Maldah ...	19 0	18 0	13 0	...	...	...	11 0	14 0	10 0	17 0	17 0	17 0	...	...	...
37	Boothal Pargha.	13 0	13 0	11 4	...	...	...	13 0	13 0	14 0	16 0	17 0	16 8	...	...	...
ORISSA.																
38	Cuttack ...	13 2	13 2	13 2	...	...	...	10 8	10 8	11 13	19 11	21 0	17 1	...	...	...
39	Pooree ...	11 13	13 2	11 13	...	...	...	15 12	17 1	11 13	22 10	23 10	17 1	...	...	...
40	Balasore ...	15 0	15 0	13 0	13 0	13 0	13 0	13 0	13 0	12 0	21 0	21 0	19 0	...	...	...
CHOTA NAGPORE.																
South-West Frontier Agency.																
41	Hazaribagh ...	13 0	New. 16 0	13 0	17 0	13 0	14 0	...	10 0	10 0	8 0	17 0	17 0	16 0	...	...
42	Lohardugga ...	14 0	Red. 13 8	14 0	24 0	15 0	...	14 0	15 0	13 0	Middling. 15 0	17 12	14 0	...	...	...
		9 6	White. 10 12	...	...	...	...	...	...	...	Conno. 19 0	20 0	...	...	...	...
43	Singbhoom ...	10 0	10 0	10 0	10 0	10 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...
44	Manbhoom ...	14 8	13 5	14 0	...	...	...	13 0	14 0	15 0	20 0	22 0	21 8	...	...	...

* Price of common rice at Jajpore and Kendrapara 23 seers 10 chittacks per rupee.

S At Cox's Bazar retail price of salt 8 seers per rupee.

T At Fenny Hat retail price of salt 8 seers per rupee.

U In subdivisions retail prices of salt per rupee are:—Bazar 10½ seers, Samsaram 10½ seers, and Bhabuah 9½ seers.

V At Jajpore retail price of salt 11 seers per rupee.

W In subdivisions retail prices of salt per rupee are:—Majipore 9½ seers and Bitamarhi 10 seers.

CALCUTTA,
The 26th March 1890.

OF 80 TOLAH.

MAHUA OR CUMBU.
(*Manisium typho-*
(*deum.*)

MAHUA OR RAGI.
(*Manisium Ooroono.*)

Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
-----------------------------	---	-----------------	-----------------------------	---

Ch. S. Ch. S. Ch. S. Ch. S. Ch.

...
...
...
...
...

14 0 ... 27 0 ...

...
...
...

26 7 26 7 19 12

...
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22 0 22 0 20 0

28 0 28 0 20 0

...
...

18 0

...
...

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...
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...
-----	-----	-----	-----	-----

30 0 28 0 22 0

40 0 34 0 37 8

...
...

KANGNI OR KAKUN,
ITALIAN MILLET.
(*Setaria italica*.)

(GRAM, CHAN,
CHHOLA, KATRA,
OR BUNAGA.
(*Cenchrus ciliaris*.)

Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.
-----------------	-----------------------------	---	-----------------	-----------------------------

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	12	0	13	0	...	...
...	12	0	12	0	...	...
...	13	5	13	5	...	...
...
...	12	0	12	0	...	...

22	0	23	0	15	8	23	8	25	0
15	0	15	0	12	8	20	0	20	0
...	...	...	...	...	...	20	0	20	0
12	0	...	...	...	...	20	14	22	0
...	...	...	...	...	...	20	0	18	0
10	0	16	0	11	0	22	8	20	0
...	...	...	...	...	...	21	0	17	0
...	...	13	...	23	4	27	13	...	...
...	...	...	...	...	...	20	3	20	3
...	...	16	0	16	0	16	0	16	0
...	...	...	...	...	...	16	0	16	0
...	...	...	...	...	...	17	0	17	0

...	...	...	...	15	12	14	7	...	...
...	...	...	...	15	12	15	12	...	...
...	...	...	...	14	0	14	0	...	...

...	...	...	...	18	0	16	0	...	...
...	...	...	...	17	0	14	0	...	...
...	...	...	...	10	0	10	0	...	...
...	...	...	...	18	0	16	0	...	...

Station Basars of the Districts of Bengal on the 15th March 1890 — (concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CAJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
...	...	...	...	...	...	110	0 110	0 108	0	8 T 9 0	9 0 9 0	4 0 0 4	4 0 4 0	0 0 0 0	Chittagong.	
...	...	...	8 0	8 0	8 0	...	...	...	...	9 0	9 0 8 0	4 0 0 4	0 0 4 8	0 0 0 0	Noakholly.	
...	...	...	8 0	8 0	9 0	...	...	...	...	9 0	9 0 8 0	4 4 0 4	4 0 4 0	4 6 0 0	Tipperah.	
...	...	...	...	...	...	32	0 320	0 320	1	8 0	8 0 8 0	4 8 0 4	8 0 4 8	0 4 8 0	Chittagong Hill Tracts.	
...	...	...	8 0	8 0	8 0	...	...	...	...	8 0	8 0 8 0	4 8 0 4	8 0 4 8	0 4 8 0	Hill Tipperah.	
Eastern Districts—concluded.																		
BEHAR.																		
24	0 25	0 22	8	...	...	25	0 25	0 130	0 130	0 130	0 10 0 10	0 10 0 10	3 15 0 3	14 0 8 12	0 0 0 0	Patna.
...	...	...	...	21	0 21	0 19	0 16	0 16	0 200	0 9 2 9	2 8 12	4 9 0 4	2 0 4 2	9 0 4 2	9 0 0 0	Gya.
...	...	...	...	21	0 20	0 14	0 160	0 160	0 160	0 10 0 10	0 10 0 10	3 14 0 3	15 0 4 0	0 0 0 0	0 0 0 0	Shahabad.
24	3 23	1 19	12	20	14	17	9 19	12 160	0 169	0 176	0 11 0 11	0 11 0 11	3 8 0 3	10 3 3 10	2 0 0 0	Durbhunga.		
22	8 23	6 19	0	18	0 18	0 20	0 160	0 160	0 160	0 10 0 10	0 10 0 10	3 12 0 4	0 0 3 12	0 0 0 0	0 0 0 0	Mouafferpore.		
22	8 22	0 24	8	21	4 19	8 21	4 160	0 160	0 180	9 12 9	12 10 0	4 0 0 4	0 0 3 15	0 0 0 0	0 0 0 0	Saran.		
25	0 24	8 18	0 17	8 17	0 22	0 160	0 160	0 160	0 10 0 9	8 9 8	4 0 0 4	2 0 4 1	0 4 1 0	0 0 0 0	0 0 0 0	Chomparan.		
21	0 24	2 16	12	23	1 18	5 21	0 147	0 147	0 147	0 9 7 9	15 9 8	4 2 0 4	0 0 4 0	0 0 4 0	0 0 0 0	Monghyr.		
22	11 23	11 17	10	16	6 16	6 16	6 176	12 176	12 161	0 10 1 10	1 10 1 10	3 15 6 3	15 0 3 14	0 0 3 14	0 0 0 0	Bhagulpore.		
...	...	...	10	0 16	0 16	0 16	0 130	0 130	0 2 0 0	9 0 9	0 9 4 4	7 0 4 7	0 4 5 0	0 0 4 5	0 0 0 0	Purneah.
...	...	...	...	...	...	...	16	0 120	0 120	9 8 9	0 9 8 3	14 0 4 1	0 4 0 4	0 0 0 0	0 0 0 0	Maldah.
25	0 25	0 16	0 20	0 20	0 22	0 200	0 200	0 200	0 9 0 9	0 9 0 9	4 0 0 4	0 0 4 0	0 4 8 0	0 0 0 0	0 0 0 0	Sonthal Pergas.		
ORISSA.																		
...	...	...	18	6 14	7 15	12 80	0 80	0 80	0 11 0 11	0 11 0 12	0 3 12 0	3 12 0 3	3 0 3 3	0 0 3 0	0 0 0 0	Cuttack.
...	...	...	14	7 15	12 14	7 80	0 80	0 80	0 11 13 11	13 11 13	3 6 0 3	6 0 3 6	0 0 3 6	0 0 0 0	0 0 0 0	Pooree.
...	Balasore.	
CHOTA NAGPORE																		
South-West Frontier Agency																		
23	0 21	0 16	0 15	0 17	0 320	0 320	0 320	0 8 0 8	0 8 0 8	0 8 0 8	4 4 0 4	4 0 4 6	0 4 6 0	0 4 6 0	0 0 0 0	Hamirbagh.		
31	0 32	0 17	8	24	0 19	0	Lohardugga.	
16	0 16	0	...	14	0 14	0 240	0 240	0 200	8 8 8	8 8 7	0 4 12 0	4 12 0 5	8 0 5 8	0 0 5 8	0 0 0 0	Singhoom.		
32	0 14	0 23	0	0	0 0	0 100	0 100	0 200	9 2 9	9 9 0	4 0 0 4	0 0 4 2	0 0 4 2	0 0 0 0	0 0 0 0	Manbhoom.		

- X At Bettiah retail price of salt 10 seers per rupee.
Y In subdivisions retail prices of salt per rupee are: Begusarai 9½ seers and Jamui 9 seers.
Z At Kishanganje retail price of salt 5 seers per rupee.
Z1 In Khoordah subdivision retail price of salt 10½ seers per rupee.
Z2 At Bhadrachal retail price of salt 9 seers per rupee.
Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt.

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 10	2 11 0	2 13 3	1 15 3	2 1 10	2 0 3	4 3 3	4 1 3	3 12 2	2 9 6	2 9 2	2 7 3
2	Barranpore ...	2 4 0	2 4 0	2 4 0	—	—	—	4 6 0	3 12 0	3 8 0	2 10 0	2 12 0	2 6 0
3	Dacca ...	2 0 0	2 0 0	2 8 0	2 7 0	2 7 0	1 8 0	2 13 0	3 0 0	2 8 0	2 10 0	2 13 0	2 5 0
4	Narrainpore ...	—	—	—	—	—	—	2 0 0	2 0 0	2 6 0	2 12 0	2 12 0	2 4 0
5	Chittagong ...	2 8 0	2 8 0	2 9 0	—	—	—	2 4 0	2 4 0	2 4 0	2 7 7	2 8 6	2 10 0
6	Patna ...	2 8 6 2 15 0	2 4 0 2 8 0	— 2 3 0	1 10 6	1 9 0	1 12 0	3 12 6	3 12 0	3 8 0	1 15 0	2 0 0	2 3 0
7	Balassore ...	2 8 0	2 8 0	3 0 0	2 9 0	2 9 0	2 9 0	2 9 0	2 9 0	2 4 0	1 11 0	1 11 0	1 13 0
8	Pooroo ...	—	—	—	—	—	—	—	—	—	1 11 0	1 12 0	2 2 0
9	Cuttack ...	2 0 0	2 0 0	2 0 0	—	—	—	2 10 0	2 10 0	2 4 0	2 0 0	1 11 0	2 0 0

CALCUTTA,
The 25th March, 1890.

PRICES PER MAUND

JOWAR OR GHOLUN. (<i>Sorghum Vulgare</i> .)			BAJRA OR CUMBU. (<i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
H.A.P.	R.A.P.	R.A.P.	H.A.P.	R.A.P.	R.A.P.
1 10 01	1 10 62	1 5 2	2 4 02	2 4 02	1 1 0
...
...
...
...
1 12 01	1 12 01	1 9 0	...	2 13 0	...
...
...
...

OF 40 SHEEP.

MARCA OR RAGI. (<i>Elaeagnus Corcorana</i> .)			KANGNI OR KARDU, ITALIAN MILLET. (<i>Scleria italica</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 0 03	0 0 18	11
...
...
...
...
...
...	17 0	...	1 12	01 10	02 8
...
...
...

in the undermentioned *Marts* of Bengal on the 15th March 1890.

GRAM, GHANA, CHHOLA, KADALAY OR SIKHAGA. (<i>Cicer Aristicum</i> .)			INDIAN-CORN OR MAHER. (<i>Zea Mays</i> .)			ARHAR OR TUR. CADJAN PEA. (<i>Cajanus indicus</i> .)			FIRWOOD.			SALT.			MART.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 3 2 2 3	2 4 6	1 14 11	1 14 6	2 5 0	2 1 1	2 1 2	2 9 10	0 5 6	0 5 6	0 6 0	3 9 8	3 10 2	3 9 6	Calcutta.	
2 0 2 2 0	2 9 0	...	...	...	...	...	...	...	...	...	3 14 0	3 12 0	3 13 0	Serajgunge.
0 0 3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
12 1 3 0 0	3 0 0	...	...	...	3 0 0	3 2 0	3 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 8 0	3 12 0	Narsingunge.
4 0 8 0 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	4 0 0	4 4 0	4 0 0	Chittagong.
10 0 1 8 6	1 9 0	1 10 3	1 9 0	1 11 6	...	1 9 0	1 9 0	0 6 0	0 6 0	0 5 0	3 12 9	3 16 0	3 12 6	Paina.	
12 0 2 12 0	2 14 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Balacon.
...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
5 0 2 12 0	1 11 0	...	...	...	2 0 0	2 12 0	2 5 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 8 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.		STATION OBSERVATIONS.														
		District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
				Mean barometric height, 9 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Rel.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
OISSIA.		Poorce	Poorce	29.851	29.843	—	KW	43.0	80.7	17. 20 Mar.	70.1	16th Mar.	86.1	70.8	78.4	—
		Outback	Outback	29.818	29.810	—	S. w. ly.	32.8	81.7	15. 18 ..	73.3	15th ..	85.3	77.0	81.1	+1.4
		Balaore	Balaore	29.810	29.841	—1.08	NW	37.0	86.0	15th ..	72.1	16th ..	80.8	75.5	78.1	+0.7
		South-West Midnapore	Rangor Island	29.761	29.810	—0.08	South-westerly.	37.1	97.9	21st ..	70.8	16th ..	83.0	75.1	79.4	—0.4
SOUTH-WEST BENGAL.		Midnapore	Midnapore	29.764	29.824	—1.11	South-westerly.	30.5	92.4	16th, 18th Mar.	70.9	13th ..	80.0	74.0	77.2	+1.3
		24-Pergunnahs	Calcutta	29.817	29.843	—0.01	SW	40.0	87.7	16th, 21st Mar.	73.0	16th ..	84.4	77.8	80.1	+0.1
		Hugobly	Calcutta	29.671	29.633	—1.01	S	37.3	97.3	16th, 19th Mar.	70.3	16th ..	80.3	72.0	76.2	+1.9
		Burdwan	Burdwan	29.802	29.834	—1.06	SW	108.0	93.5	21st ..	69.7	16th ..	80.9	73.2	77.1	+1.4
SOUTH-WEST BENGAL.		Hankora	Hankora	29.766	29.808	—1.19	SW	83.3	97.6	16th ..	65.4	16th ..	80.0	71.3	73.0	+1.6
		Roorhoom	Roorhoom	29.703	29.790	—1.12	W	65.7	97.0	21st ..	60.7	16th ..	83.8	69.0	72.0	+1.6
		West Burdwan	Ranagunna	29.743	29.734	—0.03	Calm & NW	30.9	88.1	16th ..	65.4	16th ..	80.3	69.0	74.6	+1.4
		Nourah-dahad	Berhampore	29.749	29.817	—1.03	Southwesterly	113.4	97.2	16th ..	64.7	16th ..	84.3	66.0	71.4	+1.6
SOUTH-WEST BENGAL.		Naddeo	Krishnagar	29.774	29.841	—0.04	South-westerly	132.6	97.0	16th ..	63.0	16th ..	83.3	70.8	77.0	+3.7
		Jessore	Jessore	29.793	29.827	—1.03	NW	60.0	94.3	16th ..	69.3	16th ..	83.2	76.0	81.1	+3.0
		Khoulna	Chittagong	29.790	29.831	—0.01	SE & SSE	147.8	87.1	16th ..	65.0	16th ..	81.3	70.4	77.4	+0.1
		Chittagong Hill Tracts	Demagiri	29.825	29.847	—0.04	S	137.7	90.6	16th ..	70.4	16th ..	82.3	73.6	78.4	+1.1
SOUTH-WEST BENGAL.		Bachrangunge	Bachrangunge	29.822	29.876	—0.74	S	150.3	85.3	16th ..	68.8	16th ..	81.0	71.0	76.8	+1.1
		Noakholly	Noakholly	29.803	29.844	—0.78	S	140.0	86.5	16th ..	69.0	16th ..	85.7	72.3	79.0	+1.4
		Farrakka	Farrakka	29.817	29.840	—0.03	S	177.3	93.6	16th ..	68.3	16th ..	80.3	70.1	76.3	+0.6
		Dacca	Dacca	29.825	29.861	—0.79	SW	140.4	90.4	21st ..	62.6	16th ..	87.8	71.1	79.3	+1.3
SOUTH-WEST BENGAL.		Comilla	Comilla	29.782	29.842	—0.03	North-easterly.	102.7	89.6	16th ..	65.3	16th, 18th Mar.	85.5	67.8	76.0	+1.6
		Mymensingh	Mymensingh	29.753	29.800	—0.07	SE	128.0	94.3	16th ..	64.1	16th ..	82.1	66.0	75.4	+2.7
		Bogra	Bogra	29.773	29.821	—0.06	E	109.9	93.4	16th ..	69.3	16th ..	80.3	65.8	77.6	+0.3
		Pabna	Pabna	29.763	29.810	—0.03	SE	98.9	94.0	16th ..	65.0	16th ..	80.3	67.6	76.1	+2.1
SOUTH-WEST BENGAL.		Rajshahye	Rajshahye	29.775	29.817	—0.04	E	80.4	96.7	16th ..	62.3	16th ..	83.2	65.0	79.4	+3.1
		Maldah	Maldah	29.769	29.823	—1.02	NE	141.0	92.1	16th, 18th Mar.	65.2	16th, 18th Mar.	81.0	67.0	76.0	+2.9
		Dinapore	Dinapore	29.722	29.820	—0.71	E	39.0	80.8	16th ..	60.0	16th ..	83.3	68.6	76.9	+2.7
		Sungpore	Sungpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
SOUTH-WEST BENGAL.		Jalpigore	Jalpigore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Darjeeling Hill Tracts	Darjeeling	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Pharash	Pharash	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		North Bhagalpore	North Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
SOUTH-WEST BENGAL.		Mossurpore	Mossurpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Durbhanga	Durbhanga	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Chumpran	Chumpran	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Chupra	Chupra	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
SOUTH-WEST BENGAL.		Chabab	Chabab	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Gya	Gya	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		Patna	Patna	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		South Bhagalpore	South Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
SOUTH-WEST BENGAL.		South Bhagalpore	South Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		South Bhagalpore	South Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		South Bhagalpore	South Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0
		South Bhagalpore	South Bhagalpore	29.739	29.826	—0.01	E & NE	20.3	89.2	15, 16 & 18 to 21 Mar.	60.0	16th, 17th Mar.	80.1	61.0	73.0	+1.0

* Means of five days. † Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-80. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by 10. The means of the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the stations in the district ending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 21st of March 1890.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
91	2.0	1.33	1.00	0.12	2.35	0.60	+2.00	77.69	56.96	+20.83	1.3	0.3	Poorer	Poorer	Orissa.		
92	2.1	0.31	0.01	0.28	1.83	0.83	+1.03	68.20	53.61	+14.59	1.6	0.6	Cuttack	Cuttack			
93	0	0.21	0.00	0.28	1.23	0.83	+1.39	82.89	55.50	-2.91	1.3	0.6	Balasore	Balasore			
94	2.4	0.02	0.00	0.10	1.22	0.71	+0.61	60.06	64.46	-4.40	1.3	0.3	Rauar Island	South-West Midnapore	South-West Bengal.		
95	1.7	0.20	0.10	0.30	1.03	1.31	-0.18	67.42	58.78	-8.64	0.7	0.3	Midnapore	Midnapore			
96	2.7	0.01	0.00	0.32	0.50	1.00	-0.41	51.00	53.91	+0.79	0.3	0.3	Calcutta	St. Petersburg			
97	1.7	0.28	0.13	0.30	0.00	0.64	-0.34	44.49	48.58	-4.09	0.3	0.3	Burdwan	Burdwan	East Bengal.		
98	1.8	Nil	Nil	0.23	0.00	0.74	+0.74	50.82	53.75	+3.93	0.0	0.6	Bankura	Bankura			
99	2.4	0.33	0.17	0.06	0.00	0.41	+0.28	53.15	53.01	+0.14	0.8	0.6	Raneegunge	Raneegunge			
100	2.4	Nil	0.14	0.10	0.22	0.50	-0.16	51.40	51.54	-0.14	0.3	0.6	Berhampore	Berhampore	North Bengal.		
101	3.7	Nil	0.04	0.37	0.41	1.00	-0.39	52.43	51.18	+1.25	0.2	0.6	Krishnagar	Krishnagar			
102	0.7	Nil	0.03	0.41	0.31	1.27	-1.06	54.96	55.60	-0.64	0.1	0.7	Jessore	Jessore			
103	3.7	2.04	2.17	0.40	2.35	1.33	+1.22	102.90	116.81	-12.91	3.4	0.9	Chittagong	Chittagong	North Bengal.		
104	5.0	0.11	0.31	0.47	0.50	1.23	-0.43	78.91	79.30	-0.39	1.0	0.8	Dumagiri	Dumagiri			
105	1.4	1.09	2.00	0.72	2.24	2.30	-0.15	93.13	100.53	-17.40	3.6	1.2	Noakhally	Noakhally			
106	4.3	2.28	1.27	0.55	1.30	1.78	-0.48	63.61	58.67	+4.94	2.0	1.0	Farrukpore	Farrukpore	North Bengal.		
107	7.0	2.13	1.31	0.58	1.03	1.72	-0.69	77.02	67.62	+10.40	3.9	1.0	Dacca	Dacca			
108	6.6	0.06	1.11	0.00	0.00	0.00	0.00	72.89	72.89	0.00	1.0	1.0	Comilla	Comilla			
109	8.1	2.23	2.23	0.31	2.27	1.10	+1.21	91.15	69.30	+21.85	2.4	0.9	Mymensingh	Mymensingh	North Bengal.		
110	0.7	0.31	0.00	0.18	0.71	0.61	+0.30	66.33	58.62	+7.71	0.8	0.4	Bogra	Bogra			
111	0.1	2.03	1.96	0.20	2.01	0.05	+1.08	57.38	59.33	+1.95	2.5	0.4	Berhampore	Berhampore			
112	3.0	0.03	0.00	0.02	0.00	0.44	-0.30	44.43	58.02	-13.59	0.7	0.8	Rampore	Rampore	North Bengal.		
113	1.3	0.01	Nil	0.10	0.11	0.50	-0.23	59.90	58.17	-1.73	0.0	0.4	Maldah	Maldah			
114	4.1	Nil	0.01	0.10	0.04	0.30	-0.20	57.33	58.18	-0.85	0.2	0.8	Dumagiri	Dumagiri			
115	0.4	0.00	0.00	0.30	0.02	0.71	-0.69	85.89	78.07	+7.82	0.3	0.4	Rangpur	Rangpur	North Bengal.		
116	2.0	0.18	0.00	0.34	0.00	0.60	-0.14	110.79	112.44	+1.65	0.0	0.8	Jalpaiguri	Jalpaiguri			
117	1.0	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Darjeeling	Darjeeling			
118	1.0	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Purnea	Purnea	North Bengal.		
119	1.0	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Moanipur	Moanipur			
120	1.0	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Durbhunga	Durbhunga			
121	2.0	Nil	Nil	0.00	0.18	0.33	-0.17	64.11	67.40	-3.29	0.0	0.2	Motihari	Chumpran	North Bengal.		
122	1.9	Nil	Nil	0.04	0.17	0.10	+0.01	40.30	43.00	-2.70	0.0	0.2	Chupra	Saran			
123	2.0	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Dohra	Dohra			
124	4.0	0.02	0.00	0.07	0.40	0.38	+0.02	40.40	40.88	-0.48	0.8	0.2	Buxar	Buxar	North Bengal.		
125	3.3	Nil	Nil	0.00	0.00	0.30	-0.25	75.00	59.48	+15.52	0.0	0.8	Arrah	Arrah			
126	3.7	0.15	0.07	0.08	0.23	0.29	-0.04	37.84	41.33	-3.49	0.8	0.3	Gya	Gya			
127	3.1	0.03	0.01	0.08	0.13	0.24	-0.12	43.61	41.95	+1.66	0.2	0.3	Bankura	Bankura	North Bengal.		
128	1.8	Nil	Nil	0.00	0.00	0.23	-0.17	42.33	43.93	-1.60	0.0	0.2	Bhagpur	Bhagpur			
129	0.7	0.02	0.02	0.12	0.44	0.44	0.00	51.00	51.70	-0.70	0.0	0.3	Boomra	Boomra			
130	0.6	Nil	Nil	0.10	0.01	0.73	-0.12	43.64	51.76	-8.12	0.0	0.3	Haridwar	Haridwar	North Bengal.		
131	0.6	0.07	0.11	0.20	1.09	0.60	+1.00	40.33	50.54	-10.21	0.8	0.3	Nauch	Nauch			
132	0.1	0.18	0.11	0.20	1.05	0.92	+0.13	40.33	50.54	-10.21	1.0	0.6	Chyabassa	Chyabassa			

Notes: The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The amount of rain is the part of the day covered, the amount being denoted by 10. Under the head District observations of rainfall the normal means are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of March 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1889.	Average rainfall from 1st of May to date.
			Saturday, 16th March.	Sunday, 17th March.	Monday, 18th March.	Tuesday, 19th March.	Wednesday, 20th March.	Thursday, 21st March.	Friday, 22nd March.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL.	Noakhali	Gournadi	0.03	0.07				1.35	1	1.35	1.35	0.07	?	67.05	?
		Naikholi	0.03	0.05	1.23	0.14				4	1.97	1.97	0.07	101.55	111.10
		Barishpore (Rangpur)		2.35						2	2.20	2.48	0.07	110.00	?
	Farrakka	Madai-pore			0.11			0.39	2	0.50	0.50	0.07	?	63.40	63.40
		Farrakka-pore					1.53	0.84	2	2.37	2.61	0.07	?	63.40	63.40
	Dacca	Munshing-ngo	0.04	0.04	0.02			0.03	2	0.09	1.41	0.07	?	79.52	73.33
		Dacca	0.04	0.14	0.14	0.05		0.03	2	0.32	2.57	0.07	?	79.52	61.71
		Narainpore	0.04	0.19	0.14	0.05		0.03	3	0.36	1.65	0.07	?	79.52	61.71
	Hill Tipperah	Manikpore	0.12			0.37			4	0.48	1.69	0.07	?	79.52	61.71
		Jaydhpore							3	0.50	0.71	0.07	?	69.86	?
Agartala		0.05	0.02		0.27				1	0.27	0.27	0.07	?	48.16	65.31
NORTH BENGAL.	Tipperah	Comilla							2	0.07	0.29	0.07	?	48.16	65.31
		Chandpore	0.09	0.06	0.04	1.35			4	1.54	2.16	0.07	?	55.28	65.31
		Brachmanbaria			0.14				1	0.14	0.14	0.07	?	41.47	?
	Mymensingh	Kamachandra-pore	0.25	0.10	1.40	2.50		1.40	6	0.10	2.25	0.07	?	58.64	?
		Barishpore	0.07		0.05				2	0.12	0.05	0.07	?	63.10	?
		Lakshmi			2.50				1	2.50	2.50	0.07	?	72.33	?
	Mymensingh	Kishoreganj	0.31		0.19	0.25		1.43	3	0.61	3.01	0.07	?	73.61	72.67
		Atia (Tangail)						1.28	1	1.28	1.34	0.07	?	64.65	57.62
		Mymensingh	0.02			0.07		1.28	2	1.28	2.16	0.07	?	100.11	76.29
	Mymensingh	Jamshpore				0.09		0.77	3	1.06	1.06	0.07	?	87.09	76.29
Narainpore					0.81		1.00	1	4.24	4.24	1.10	?	130.71	65.81	
Sukarnakhaty							0.75	1	0.77	0.77	0.07	?	74.44	?	
NORTH BENGAL.	Mymensingh	Buragpore						1.24	1	1.24	1.44	0.07	?	130.71	74.44
		Sherepore				0.23		0.64	2	0.69	0.69	0.07	?	130.71	74.44
		Lowanganj						0.18	1	0.18	0.18	0.07	?	130.71	74.44
	Futaba	Futaba	0.03					0.11	1	0.11	0.11	0.07	?	130.71	74.44
		Garaganj	0.19					1.12	2	1.22	1.30	0.07	?	130.71	74.44
	Bonga	Sherepore							Nd	Nd	0.03	0.07	?	63.70	58.07
		Nowkhilla						1.54	1	1.54	1.54	0.07	?	63.70	58.07
		Barishpore						0.23	1	0.23	0.33	0.07	?	63.70	58.07
	Nayabhat	Barishpore	0.02						Nd	Nd	Nd	0.07	?	40.34	54.13
		Nayabhat							1	0.02	0.13	0.07	?	40.34	54.13
Nayabhat								1	0.10	0.10	0.07	?	40.34	54.13	
Malda	Malda	0.01						Nd	Nd	Nd	0.07	?	40.34	54.13	
	Chanchal							Nd	Nd	Nd	0.07	?	40.34	54.13	
	Chanchal							Nd	Nd	Nd	0.07	?	40.34	54.13	
Munshiganj	Munshiganj							1	0.06	0.18	0.07	?	40.34	54.13	
	Chandpore							Nd	Nd	Nd	0.07	?	40.34	54.13	
	Chandpore							Nd	Nd	Nd	0.07	?	40.34	54.13	
NORTH BENGAL.	Rangpur	Munshiganj							Nd	Nd	Nd	0.07	?	40.34	54.13
		Rangpur	0.02						2	0.06	0.06	0.07	?	40.34	54.13
		Rangpur							Nd	Nd	Nd	0.07	?	40.34	54.13
	Jalpaiguri	Jalpaiguri							Nd	Nd	Nd	0.07	?	40.34	54.13
		Alipore							Nd	Nd	Nd	0.07	?	40.34	54.13
		Alipore							Nd	Nd	Nd	0.07	?	40.34	54.13
	Cooch Behar	Jalpaiguri							Nd	Nd	Nd	0.07	?	40.34	54.13
		Alipore							Nd	Nd	Nd	0.07	?	40.34	54.13
		Alipore							Nd	Nd	Nd	0.07	?	40.34	54.13
	Cooch Behar	Cooch Behar							Nd	Nd	Nd	0.07	?	40.34	54.13
Cooch Behar								Nd	Nd	Nd	0.07	?	40.34	54.13	
Cooch Behar								Nd	Nd	Nd	0.07	?	40.34	54.13	
Lalmonirhat	Lalmonirhat							Nd	Nd	Nd	0.07	?	40.34	54.13	
	Lalmonirhat							Nd	Nd	Nd	0.07	?	40.34	54.13	
	Lalmonirhat							Nd	Nd	Nd	0.07	?	40.34	54.13	
NORTH BENGAL.	Purnea	Purnea							Nd	Nd	Nd	0.07	?	40.34	54.13
		Purnea							Nd	Nd	Nd	0.07	?	40.34	54.13
		Purnea							Nd	Nd	Nd	0.07	?	40.34	54.13
	North Bhagalpur	North Bhagalpur							Nd	Nd	Nd	0.07	?	40.34	54.13
		North Bhagalpur							Nd	Nd	Nd	0.07	?	40.34	54.13
		North Bhagalpur							Nd	Nd	Nd	0.07	?	40.34	54.13
	Dumkani	Dumkani							Nd	Nd	Nd	0.07	?	40.34	54.13
		Dumkani							Nd	Nd	Nd	0.07	?	40.34	54.13
		Dumkani							Nd	Nd	Nd	0.07	?	40.34	54.13
	Mouzerpore	Mouzerpore							Nd	Nd	Nd	0.07	?	40.34	54.13
Mouzerpore								Nd	Nd	Nd	0.07	?	40.34	54.13	
Mouzerpore								Nd	Nd	Nd	0.07	?	40.34	54.13	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of March 1890—concluded.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1889.	Average rain-fall from 1st of May to date.
			Saturday, 16th March.	Sunday, 17th March.	Monday, 18th March.	Tuesday, 19th March.	Wednesday, 20th March.	Thursday, 21st March.	Friday, 22nd March.	Number of rainy days.	of Rainfall week.				
NORTH BENAR—concluded.	Champana.	Motihuri	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.10	0.33	75.52	42.52
		Bottish	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.12	0.31	82.48	42.52
		Bayaha	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.11	?	76.54	42.52
SOUTH BENAR	Saran.	Burhura	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.23	?	81.93	42.52
		Gopalgunge	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.23	0.07	85.73	42.52
		.....	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.14	0.14	41.45	42.52
	Shahabad.	Ohnpur	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.11	0.27	60.45	42.52
		Bahra	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.30	0.22	47.74	42.52
		Bahra	.....	.....	.....	.....	.....	.....	0.55	1	0.05	0.26	0.65	41.02	42.52
		Bahra	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.45	0.36	54.01	42.52
		Sasaram	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.05	0.22	30.51	42.52
	Gya.	Arrah	0.02	.....	.....	.....	.....	.....	.....	1	0.02	0.00	0.20	42.02	42.52
		Mohania	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.15	?	?	42.52
		Aurungabad	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.30	0.30	25.02	42.52
		Gya	.....	.....	.....	.....	0.03	0.13	.....	1	0.13	0.13	0.25	30.72	42.52
		Nowadah	.....	.....	.....	.....	.....	0.07	.....	1	0.07	0.13	0.45	31.77	42.52
	Patna.	Jehanabad	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.10	0.20	34.40	42.52
		Arwal	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	26.00	42.52
		Sherrghati	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	29.29	42.52
		Haraul	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.02	?	17.04	42.52
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	31.00	42.52
	Monghyr.	Patna	0.03	.....	.....	.....	.....	.....	.....	1	0.03	0.07	0.25	31.00	42.52
		Dimapra	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.19	0.27	41.00	42.52
		Barr	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.20	0.25	30.03	42.52
	South Bhagal-pore.	Bickram	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.20	?	41.44	42.52
		Hilsa	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.28	?	25.04	42.52
		Begowal	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.05	0.10	47.75	42.52
	Sonthal Per-gunnah.	Monghyr	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.21	41.77	42.52
		Jamui	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.16	0.32	30.24	42.52
		Gogri	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	20.10	42.52
	Sonthal Per-gunnah.	Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	47.75	42.52
		Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.20	45.00	42.52
		Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.14	0.25	34.40	42.52
	Sonthal Per-gunnah.	Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	40.97	42.52
		Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	40.97	42.52
		Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	40.97	42.52
CENTRAL NAG-PUR.	Hamirpore.	Rajmahal	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.07	0.20	30.75	42.52
		Shelkura	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.70	0.32	40.74	42.52
		Pakeer	0.05	.....	.....	.....	.....	.....	.....	1	0.05	0.24	0.37	73.43	42.52
		Nya Dourka	0.02	.....	.....	.....	.....	.....	.....	1	0.02	0.35	0.58	57.10	42.52
		Doonhar	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.45	0.51	40.00	42.52
	Lehardugga.	Jamui	.....	.....	.....	.....	.....	0.05	.....	1	0.05	0.20	0.60	40.00	42.52
		Mohapara	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.07	?	?	42.52
		Nantol	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.34	0.63	30.34	42.52
		Pachamba	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.41	0.60	40.34	42.52
		(Gerd)	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.74	1.01	36.00	42.52
	Singur.	Hazaribagh	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	0.70	43.40	42.52
		Semagur	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	0.70	43.40	42.52
		Mahuli Hill	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	0.70	43.40	42.52
		Jhoomna Hill	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	0.70	43.40	42.52
		Bardi	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	0.70	43.40	42.52
	Manbhoon.	Chitra	.....	.....	.....	.....	.....	.....	.....	NH	NH	1.05	?	47.00	42.52
		Korapcho	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.70	?	47.00	42.52
		Kampha	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.70	?	47.00	42.52
		Lehardugga	.....	.....	.....	.....	.....	0.34	.....	NH	NH	1.48	0.60	44.73	42.52
		Ranchi	.....	.....	.....	.....	.....	.....	.....	1	0.34	2.05	0.60	40.34	42.52
	Manbhoon.	Palasow	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.09	0.22	35.12	42.52
		Silli	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.40	?	31.70	42.52
		Balumar	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.39	?	47.70	42.52
		Kampha	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.68	?	29.45	42.52
		Gardha	.....	.....	.....	.....	.....	.....	.....	NH	NH	0.11	0.60	40.34	42.52
	Manbhoon.	Chakradhar	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Chakradhar	.....	.....	.....	.....	.....	.....	.....	1	0.11	1.05	0.60	40.34	42.52
		Chakradhar	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Chakradhar	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Chakradhar	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
	Manbhoon.	Parulla	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Parulla	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Parulla	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Parulla	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52
		Parulla	.....	.....	.....	.....	.....	0.11	.....	1	0.11	1.05	0.60	40.34	42.52

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the are missing, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 25th March 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21st
OF MARCH 1890.

THE period of unsettled weather, which included the greater part of the preceding week, continued during the present one, the thunderstorms accompanied by showers being most frequent in the early part of the week in the southern districts. The disturbed conditions gradually passed eastwards, and while scattered storms with light rain occurred in most of the districts, frequent showers were reported from East Bengal only during the last few days. At first there was generally low pressure, which became intensified in North Bengal in the middle of the week, and though rather large changes were reported, defect continued with a tendency to increase towards the end.

On the 15th, the first day of the week, there was a rather diffused low-pressure area overlying the greater part of Bengal, and deepening towards the foot of the hills. Strong winds, generally southerly in direction, were blowing in the north-west corner of the Bay and at most of the inland stations, while temperature changes, as well as the distribution relative to the normal, were somewhat irregular. On the 16th the fall of pressure, which had been going on for some days, ceased and was followed by a general rise, very rapid in North Bengal but diminishing towards the south, till in South Bengal it was only two or three-hundredths of an inch. The centre of the diffused low-pressure area was then near Bhagulpore, and the wind circulation tended towards that point, being southerly in the lower districts, east in North Bengal, and from south-west to north-west in Behar. The difference from normal pressure was very uniform, exceeding a tenth of an inch in South Bengal and along the west coast of the Bay, while it was very little less over the rest of the province. During these two days thunderstorms were numerous in Orissa and East Bengal, accompanied by heavy showers in the former, but as a rule giving only light falls in the latter. From the 16th rain almost entirely ceased in Orissa, there being only a few scattered showers in the Balasore district during the remainder of the week. On the 17th pressure again began to fall very rapidly in Ohutta Nagpur, Behar, and the northern half of South-West Bengal. The depression was more distinct, having its centre still near Bhagulpore with a similar wind circulation, except that the velocity, which had begun to fall off on the previous day, again increased. Temperature was rising and was from one to three degrees in excess. The only rainfall on this day was in East Bengal, where, however, it was more heavy and general than before. On the 18th pressure increased about a twentieth of an inch in the centre of the province, the depression partially filling up, but wind directions remained unchanged. Temperature changed irregularly, falling in North Bengal and Behar, and rising four to five degrees in East Bengal, where there were again light showers of rain. On the 20th there was a similar increase of pressure preceded by small irregular changes on the 19th and followed by a rapid fall on the 21st. During these three days defect in pressure generally ranged from a twentieth to a tenth of an inch, and the indraught towards the centre of the province continued. Rain showers were very light and scattered except on Thursday, the 20th, in South-West and East Bengal. Temperature continued to rise, and by the end of the week was from two to five degrees in excess of the normal.

Pressure—Has been subject to large and frequent changes, but has been considerably below the normal throughout the whole week. The largest defect was slightly over a tenth of an inch in South-West Bengal, and the lowest eight-hundredths of an inch in part of South-West and East Bengal.

Temperature—Has been generally rising, and the means at the different stations are all in excess by amounts ranging up to four degrees. The excess in the means for North Bengal and South Behar is over 2° and for the other districts over 1° excepting Orissa, where it is 0.6°. The highest observed during the week was 98.4° in South Behar, and the lowest 54.9° in North Behar.

The actual temperatures during the week, the range from day to night, and their variation from the normals, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 21st March 1890.

	Normal mean maximum temperature for the week ending 21st March.	Actual mean maximum temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 21st March.	Actual mean minimum temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 21st March.	Actual mean daily temperature for the week ending 21st March 1890.	Variation of actual mean from the normal.
Cuttack	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Calcutta	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Dacca	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Burdwan	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Patna	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Cooch	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Guwahati	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Shantinagar	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8
Dumka	86.3	86.6	+0.3	73.7	75.1	+1.4	80.0	80.8	+0.8

Rainfall.—As stated above, almost all the rain that has fallen during the week has been in Orissa and East Bengal: in the former during the first two days, but continuing in the latter till the end, the only day when frequent showers were not received there being Wednesday. The days when showers were most numerous in East Bengal were Tuesday and Thursday, but the falls were generally under half an inch, though some reported more than an inch and-a-half. The averages for Orissa, East Bengal, and North Bengal are above the normal, East Bengal having received 1·6 inches, nearly three times the normal amount for the week, Orissa 0·95 inch, and North Bengal 0·27 inch. In the other districts the falls have been very scanty, under a tenth of an inch in all, while in North Behar no rain whatever has fallen.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of March 1890:—

METEOROLOGICAL Divisions.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	97·9	70·1	85·4	73·8	82·1	+0·8	0·26	0·22	+0·07	1·5	0·6	+0·9	2·16	0·74	44·31	58·11
South-West Bengal	88·1	62·9	80·7	71·9	82·3	+1·2	0·97	0·26	+0·19	0·3	0·6	+0·2	0·57	0·30	53·38	63·19
East Bengal	88·0	65·0	80·0	70·0	78·0	+1·0	1·00	0·57	+1·43	2·7	0·3	+1·3	1·30	1·70	70·50	77·01
North Bengal	84·7	66·9	80·8	66·8	73·3	+2·3	0·37	0·17	+0·10	0·7	0·3	+0·2	0·51	0·57	73·25	71·87
North Behar	80·3	54·9	60·4	62·1	70·3	+1·1	Nil	0·05	+0·05	0·0	0·3	+0·3	0·10	0·20	50·00	60·50
South Behar	80·4	60·7	60·4	67·3	60·3	+2·1	0·08	0·04	+0·04	0·4	0·3	+0·1	0·08	0·24	44·44	44·08
Chuttia Nagpur	86·3	61·0	60·3	66·1	77·7	+1·3	0·05	0·16	+0·11	0·3	0·4	+0·1	1·03	0·73	61·10	80·56

* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 25th March 1890.

O. LITTLE,
For Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd March 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
Mar. 1890	16th	29·806	80·9	91·5	21·2	70·3	84·1	75·0	·747	70·5	64	Nil
"	17th	·794	82·3	90·5	16·5	74·0	85·6	78·5	·781	75·4	72	"
"	18th	·807	83·2	93·5	20·7	72·8	86·0	72·4	·814	64·3	49	"
"	19th	·874	81·9	90·0	16·2	73·8	84·4	77·5	·849	74·3	73	"
"	20th	·846	84·7	94·5	19·7	74·6	84·2	78·5	·872	75·1	70	"
"	21st	·817	86·8	96·3	18·9	77·3	87·6	80·7	·956	77·9	78	"
"	22nd	·798	85·9	95·0	20·2	75·8	87·1	77·0	·793	72·3	62	"

The mean 10 A.M. pressure of the seven days 29·825

The mean temperature of the seven days 83·7

The extreme variation of temperature 25·9

The maximum temperature 96·2

The mean 10 A.M. relative humidity of the seven days 66

The total fall of rain from 16th to 22nd March 1890 Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

O. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 24th March 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
16th to 22nd March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
March	16th	144.2	9.6	29.755	80.6	90.1	20.4	69.7	72.6	0.499	68.6	68	SSW and variable	89	Nil	Clear
	17th	146.8	8.3	729	81.9	89.3	16.1	73.2	77.2	.876	74.2	81	SSW and S	244		Partially cloudy.
	18th	145.3	9.3	769	82.1	92.7	19.3	73.2	72.4	.667	67.2	61	SW and SSW	122		Clear.
	19th	145.5	8.6	815	82.0	89.1	16.0	73.1	76.3	.833	73.7	77	SSW and S	200		Partially cloudy. a, b, c.
	20th	146.8	9.0	771	83.2	93.5	18.8	74.7	77.0	.846	74.2	75	SSW and SW	179	0.01	Partially cloudy, o, d.
	21st	148.3	10.0	752	84.7	95.5	20.4	75.1	78.3	.624	75.5	76	SSW and WSW	103	Nil	Chiefly clear, a.
	22nd	146.5	10.3	739	84.0	94.5	19.5	75.0	76.8	.826	73.5	71	SSW and SW	115		Clear. a, b, c.

The mean pressure of the seven days Inches. 29.759

The average pressure of the corresponding period for 24 years, S.-G.'s Office Inches. 29.817

The total number of hours of bright sunshine Hours. 65.1

The maximum possible number of hours of sunshine Hours. 84.3

The mean temperature of the seven days ° 82.6

The average temperature of the corresponding period for 24 years, S.-G.'s Office ° 81.2

The extreme variation of temperature ° 25.8

The maximum temperature ° 95.5

The highest velocity of the wind in one hour Miles. 16

The highest pressure of wind on one square foot lbs. 3

The mean relative humidity % 73

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office % 64

The total fall of rain from 16th to 22nd March 1890 Inches. 0.01

The average fall of the corresponding period for 24 years, S.-G.'s Office Inches. 0.26

The total fall from 1st January to 22nd March 1890 Inches. 1.10

The average fall of the corresponding period for 24 years, S.-G.'s Office Inches. 2.57

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

a, dew, o, overcast, d, drizzling rain, t, thunder, <, lightning, = fog.

O. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 24th March 1890.

MEMORANDUM.

THE returns of vital statistics received from the principal Municipalities in Bengal during the week ending 8th March 1890, disclose the following results:—

1. That the birth-rate in these Municipalities amounted to 19 per 1,000 of population, against 18.5 per 1,000 during the preceding week ending 1st March, and the death-rate to 20.2, against very nearly the same ratio, viz., 20.1 per 1,000.

2. That the following Municipalities furnished the highest proportions of births and deaths:—

Births.				Deaths.			
			Ratio per mille.				Ratio per mille.
Comillah	...	...	46.3	Poori	...	...	98.6
Durbhanga	...	...	37.8	Uttorpara	...	...	86.1
Narainganj	...	...	37.8	Narainganj	...	...	68.0
Monghyr	...	...	33.4	Comillah	...	...	57.8
Hughli and Chinsurah	...	...	31.2	Ranaghat	...	...	35.5
				Rampore Beaulah	...	...	34.2
				Serampore	...	...	33.3
				Hughli and Chinsurah	...	...	32.8

3. That the mortality from the registered death-causes does not exhibit any noticeable differences in comparison with the death-rates from the same diseases during the preceding week, *vide* figures given below:—

				Ratio per mille during the weeks ending—	
				8th March 1890.	1st March 1890.
Cholera	...	...	...	3.5	2.9
Small-pox	...	...	...	.5	1.0
Fever	...	...	...	7.4	7.4
Bowel-complaints	...	...	...	2.4	2.5
Injury	...	...	...	.6	.6
Other causes	...	...	...	5.9	5.7

4. That cholera and the maladies classed under the head of "Other causes" proved conspicuously fatal in the following Municipalities:—

Cholera.				Other causes.			
			Ratio per mille.				Ratio per mille.
Uttorpara	...	...	47.2	Ranaghat	...	...	23.9
Poori	...	...	43.1	Comillah	...	...	16.4
Narainganj	...	...	37.4	Hughli and Chinsurah	...	...	13.1
Comillah	...	...	30.8	Serampore	...	...	11.8
Monghyr	...	...	6.3				
Gya	...	...	4.8				
Howrah	...	...	4.0				

Of the other diseases, small-pox and bowel-complaints prevailed most virulently in the town of Poori, and carried off 16.8 and 10.5 per 1,000 of population, respectively, while fever caused great loss of life in Rampore Beaulah, the mortality amounting to 26.3 per 1,000.

5. That the mortality according to Sex, Class and Age stood as follows:—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	22.1	Christians	...	14.9	Under 1 year	...	131.1
Females	...	14.2	Hindus	...	20.6	1 and under 5 years	...	26.7
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	121	Mahomedans	...	19.8	5 " 10 "	...	8.9
						10 " 15 "	...	8.6
						15 " 20 "	...	10.9
						20 " 30 "	...	14.0
						30 " 40 "	...	17.8
						40 " 50 "	...	12.0
						50 " 60 "	...	28.6
						60 years and upwards	...	68.6

W. H. GREGG, Dip. Publ. Health, Camb.,

The 25th March 1890.

Sanitary Commissioner for Bengal.

[illegible]

DISTRICTS.			NAMES OF MUNICIPALITIES.			Class.			Mortality according to—			Age.			Ratio per 1,000 of Population per Annum.																																
						Deaths among—			Ratio per 1,000 of Population per Annum.			Deaths.			Ratio per 1,000 of Population per Annum.																																
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
						Christians.			Hindus.			Buddhists.			Other classes.			Under 1 year.			1 and under 5 years.			5 and under 10 years.			10 and under 15 years.			15 and under 20 years.			20 and under 30 years.			30 and under 40 years.			40 and under 50 years.			50 and under 60 years.			60 years and up.		
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PUBLIC WORKS DEPARTMENT, -BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthi, Jellinghee, and Brahmapootra for the month of December 1889.

DATE.	RIVER GANGES.										RIVER JELLINGHEE.		RIVER BRAHMAPOOTRA.	
	Mirzapur.	Benares.	Buxar.	Dumra.	Meerut.	Sahydrang.	Benares Bazar.	Gonda.	Benares Bazar.	Benares Bazar.	Benares Bazar.	Benares Bazar.	Benares Bazar.	Benares Bazar.
	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.
1st.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
2nd.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
3rd.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
4th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
5th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
6th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
7th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
8th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
9th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
10th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
11th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
12th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
13th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
14th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
15th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
16th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
17th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
18th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
19th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
20th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
21st.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
22nd.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
23rd.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
24th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
25th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
26th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
27th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
28th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
29th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543
30th.	543	543	543	543	543	543	543	543	543	543	543	543	543	543

CALCUTTA,
The 25th March 1890.G. A. G. SHAW,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 22nd March 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO	WEEK ENDING SATURDAY, THE 22ND MARCH 1890.			WEEK ENDING SATURDAY, THE 22ND MARCH 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	805	1,99,735	3,250	669	1,58,550	2,626
Jute	35	26,475	483	20	13,550	293
Firewood	111	55,175	880	160	66,175	865
Other articles	958	2,56,550	3,701	1,006	2,84,284	4,528
Total	2,909	5,39,935	8,320	1,845	5,22,510	8,347

Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of
December 1889, as compared with the same month of the previous year.*

STAPLES.	1889.		1888.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	1,197	29	2,802	13	1,226	2,815	9	2,583
Cotton, raw	2	1	.....	.....	2	.....	.....	.....
Cotton, twist and yarn—								
1.—European	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian	.....	.....	.....	.....	.....	.....	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	308	6	183	1	314	184	320	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian—								
a.—In bales and bundles	.....	.....	.....	.....	.....	.....	.....	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
Grains—								
1.—Rice	23	118	2	72	110	74	72	.....
2.—Others	87	15	21	61	102	87	.....	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Skins of sheep, &c.—	.....	60	.....	20	60	20	18	.....
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—								
1.—Raw—								
a.—Unscoured	18	1,437	.....	1,846	1,452	1,846	67	.....
b.—Scoured	9	.....	2	.....	9	2	7	.....
2.—Gunny bags and cloth	.....	.....	.....	.....	.....	.....	.....	.....
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	.....	.....	.....	.....	.....	.....	.....	.....
4.—Iron	60	12	60	61	60	100	.....	20
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oil—								
1.—Kerosine	100	.....	67	.....	100	67	30	.....
2.—Others	76	.....	20	1	76	20	46	.....
Oilseeds—								
1.—Linseed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Til or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Sesam	12	48	60	16	56	73	.....	10
5.—Castor	.....	.....	.....	.....	.....	.....	.....	.....
6.—Poppy	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
1.—Beef and mutton	9	720	.....	126	720	126	612	.....
2.—Others	24	28	41	23	24	28	.....	.....
Railway plant and rolling-stock	21	45	10	19	21	38	29	.....
Salt	246	.....	105	.....	246	104	80	.....
Sugar—								
1.—Drained	.....	.....	.....	.....	.....	.....	.....	.....
2.—Undrained	60	110	7	179	176	106	.....	9
Wood—								
1.—Timber	.....	.....	12	.....	.....	12	.....	12
2.—Firewood	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco	20	60	21	11	114	23	68	.....
All other articles of merchandise—								
1.—Unmanufactured	.....	.....	.....	.....	.....	.....	.....	.....
2.—Manufactured	411	145	214	193	565	500	86	.....
Total	2,483	2,126	4,003	3,207	4,040	5,900	1,457	2,459

Comparative Statement of traffic, Bengal Central Railway, for December 1889.

	DECREASED.	INCREASED.	Tons.
Coal	2,663
Mostly in coal for brick burning, it is believed.			
Beef and mutton	612
Ordinary fluctuation.
Ordinary fluctuation.	328

CALCUTTA, the 24th March 1890.

F. P. QUINLAN,
Examiner of Accounts.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of December 1889, as compared with the same month of the previous year.

STAPLES.	1889.		1888.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1888.		
Coal	Tons. 8,726	Tons. 1,880	Tons. 11,037	Tons. 3,657	Tons. 10,806	Tons. 14,794	Tons. 418	Tons. 8,788
Cotton, raw	67	820	108	349	877	464	418	8,788
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	3,230	66	2,304	134	3,737	2,463	1,244	
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
1.—Rice	2,217	2,403	1,857	2,824	3,080	3,733	1,237	
2.—Others	1,041	6,766	799	9,240	7,797	6,080	1,738	
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skinned sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Retwined	9	7,223		3,449	7,233	3,449	3,554	
b.—Unretwined	22	42,863	23	25,448	42,885	25,476	7,110	
2.—Gunny-bags and cloth	327	1,718	134	1,356	2,039	1,490	543	
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Iron and copper, wrought	1,361	183	968	171	1,713	1,194	560	
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
1.—Kerosene	463	8	417	6	460	423	67	
2.—Others	220	72	123	33	293	167	106	
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger								
5.—Castor	72	2,443	79	1,081	2,254	1,181	1,373	
6.—Poppy								
7.—Others								
Provisions—								
1.—Rice	168	756	103	160	913	261	651	
2.—Others	532	345	476	371	807	641	166	
Railway plant and rolling-stock	8,093	6,183	3,006	1,449	11,206	5,345	5,901	
Salt	8,086	2	8,721	9	8,088	8,730	1,348	
Sugar—								
1.—Unrefined	1,301	127	908	219	1,413	823	590	
2.—Refined								
Tea—								
1.—Foreign		1,917	1	1,879	1,917	1,880	337	
2.—Indian								
Wood—								
1.—Timber	160	84	166	73	243	179	64	
2.—Firewood	1,021		1,040	64	1,051	2,010	959	
Tobacco	67	739	69	1,108	786	1,211	425	
All other articles of merchandise—								
1.—Unmanufactured	4,386	2,396	2,746	1,909	6,003	5,637	1,336	
2.—Manufactured	335		840		353	840	487	
Hay, straw, and wool (C. & S. B. Section)								
Total	87,646	79,023	82,618	61,148	1,17,967	93,680	25,083	4,477

Comparative Statement of the principal commodities carried by the Eastern Bengal State Railway during the month of December 1889.

INCREASES.

Cotton, raw	Tons. 418
Chiefly from C. P. T. Railway, Goalundo, and Atrai.	
Cotton piece-goods	1,244
The increase is general, and appears to be due to the partial recovery of a congested market.	
Rice	1,237
Due to a brisk demand for Assam and the Calcutta market.	
Jute, retwined	3,554
Do., unretwined	7,110
The season is a later one than last year.	
Seeds	1,373
The crop is a good one.	
Railway plant and rolling-stock	5,901
Repairs and renewals.	
Salt	1,348
Principally from C. P. T. Railway.	
Tea	337
Principally from Jalpaiguri, due to the increasing yield of the Doorga gardens.	
DECREASES.	
Coal	3,788
Less demand for brick-burning and fluctuation in supply for railway purposes.	
Tobacco	425
Decreased despatches from Northern Section.	

F. P. QUINLAN,

Examiner of Accounts.

CALCUTTA, the 24th March 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 15th March 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	250,854*	Rs. A. P. 2,87,390 7 0*	Mds. c. 25,00,000 10	Rs. A. P. 6,00,890 10 0	Rs. A. P. 19,474 9 0	Rs. A. P. 9,18,765 10 0	61,291	100,909	162,200
Or per mile of railway ...	164 5 1	188 5 1	16,400 0	394 13 0	12 11 10	600 18 0	.....	.....	.....
For previous 10 weeks of half-year ...	2,559,954	29,19,297 9 0	2,51,55,650 20	58,46,213 11 0	1,90,393 9 0	59,60,793 8 0	642,7384	990,293	1,642,0319
Total for 11 weeks ...	2,810,808	3,10,378 0 0	2,77,55,633 0	64,56,100 8 0	2,10,820 11 0	96,77,499 0 0	709,049	1,009,303	1,718,352
COMPARISON.									
Total for corresponding week of previous year ...	261,455	2,19,100 13 7	26,34,614 20	5,93,403 0 11	16,200 8 8	9,30,544 7 0	69,308	94,770	164,108
Per mile of railway corresponding week of previous year ...	171 6 8	143 6 8	17,100 0	260 4 0	10 10 9	610 8 0	.....	.....	.....
Total to corresponding date of previous year ...	2,674,973	33,45,300 7 10	2,68,44,740 20	64,19,000 8 2	1,89,179 1 3	1,01,57,336 12 2	770,183	1,034,515	1,774,698

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included traffic on account of "Gobind Dwadasi" (a bathing festival).

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 15TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	Rs. 9,30,544	610	1,624½	Rs. 9,16,806	601	1,525½	Rs. 6,26,76,964	260	1,525½	Rs. 6,23,93,962	256	.....	2,00,000

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 15th March 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	14,461	Rs. A. P. 7,236 1 0	Mds. c. 80,295 20	Rs. A. P. 3,715 9 0	Rs. A. P. 84 8 0	Rs. A. P. 10,947 8 0	1,820	605	2,425
Or per mile of railway ...	253	125 9 1	1,384 0	64 15 3	0 10 3	192 1 5	.....	.....	.....
For previous 10 weeks of half-year ...	119,001	64,123 6 0	3,71,345 20	26,507 0 0	435 11 0	89,064 1 0	17,197	6,564	23,761
Total for 11 weeks ...	133,462	71,359 7 0	4,51,690 0	29,522 2 0	471 14 0	1,00,023 7 0	19,024	7,169	26,193
COMPARISON.									
Total for corresponding week of previous year ...	24,305	12,195 9 0	33,908 10	2,395 7 0	66 11 9	14,496 4 0	2,035	574	2,609
Per mile of railway corresponding week of previous year ...	423	212 7 2	592 30	20 9 8	1 3 3	253 4 1	.....	.....	.....
Total to corresponding date of previous year ...	125,099	64,667 15 3	2,42,420 10	19,571 7 0	460 11 0	1,04,710 1 3	20,901	6,693	27,594

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 15TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 14,496	253	57½	Rs. 12,195	212	57½	Rs. 4,73,400	166	57½	Rs. 4,62,140	160	8,675	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 16th March 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,847	5,183 13 0	19,348 0	503 3 0	10 6 0	5,796 3 0	837	123	1,000
per mile of railway ...	232 15 0	232 15 0	232 15 0	26 10 6	0 7 5	280 0 11	.....	.....	.....
for previous 10 weeks of half-year ...	204,479	51,105 13 0	1,41,018 30	4,808 1 0	76 13 0	56,081 13 0	5,743	884	9,036
Total for 11 weeks ...	224,326	56,289 13 0	1,60,366 30	5,311 3 0	87 3 0	61,838 3 0	6,580	1,017	10,036
COMPARISON.									
Total for corresponding week of previous year ...	23,158	5,905 13 1	11,702 30	642 11 0	3 0 0	6,548 3 1	850	70	900
per mile of railway correspond- ing week of previous year ...	266 14 7	266 14 7	266 14 7	19 14 4	0 3 2	268 15 1	.....	.....	.....
Total to corresponding date of previous year ...	244,007	60,479 1 10	1,06,355 0	3,737 0 0	67 13 3	67,294 15 1	9,911	715	10,626

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 10th MARCH 1889.			RECEIPTS FOR WEEK ENDING 16th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 10th MARCH 1889.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 16th MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
21½	Rs. 4,265	287	22½	Rs. 5,796	260	22½	Rs. 2,74,177	246	22½	Rs. 2,63,511	239	.....	3,096

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 8th March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	479,030	87,710 0 0	5,46,780 0	22,390 0 0	17,480 0 0	1,97,450 0 0	23,159	23,234	51,413
per mile of railway ...	345	117 0 0	732 0	133 0 0	23 0 0	265 0 0	.....	.....	.....
for previous 9 weeks of half-year ...	1,345,190	6,05,830 0 0	53,29,480 0	10,71,600 0 0	1,36,810 0 0	19,84,140 0 0	197,737	273,487	473,214
Total for 10 weeks ...	1,568,180	7,45,540 0 0	58,76,160 0	12,63,780 0 0	1,74,860 0 0	21,21,660 0 0	220,910	303,711	524,621
COMPARISON.									
Total for corresponding week of previous year ...	200,161	20,533 0 0	4,35,342 0	77,879 0 0	16,927 0 0	1,79,639 0 0	21,656	23,006	44,654
per mile of railway correspond- ing week of previous year ...	267	117 0 0	731 0	116 0 0	23 0 0	246 0 0	.....	.....	.....
Total to corresponding date of previous year ...	1,401,429	7,80,184 0 0	60,11,664 0	9,80,800 0 0	1,70,798 0 0	18,82,673 0 0	214,028	251,440	465,468

* Excluding steamer earnings.
 * Due to Kanchrapara mile return tickets issued at single fare.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 7th MARCH 1889.			RECEIPTS FOR WEEK ENDING 8th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 7th MARCH 1889.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 8th MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs. 1,79,639	267	747	Rs. 1,97,450	264	673	Rs. 1,01,24,961	267	727	Rs. 1,08,98,640	265	741	7,41,679	.....

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	30,320	11,130 0 0	68,000 0	5,030 0 0	90 0 0	16,250 0 0	2,735	1,007	3,742
Or per mile of railway ...	242	89 0 0	544 0	40 0 0	0 0 0	130 0 0			
For previous 9 weeks of half-year ...	230,720	90,870 0 0	5,32,000 0	25,150 0 0	600 0 0	1,10,700 0 0	22,023	10,000	32,023
Total for 9 weeks ...	278,100	1,01,900 0 0	5,90,000 0	26,770 0 0	770 0 0	1,31,550 0 0	24,757	11,007	35,764
COMPARISON.									
Total for corresponding week of previous year ...	41,043	12,003 0 0	60,031 0	5,447 0 0	60 0 0	16,197 0 0	2,600	1,007	3,607
Per mile of railway corresponding period of previous year ...	333	101 0 0	497 0	42 0 0	0 0 0	129 0 0			
Total to corresponding date of previous year ...	263,005	1,00,573 0 0	5,21,121 0	26,040 0 0	4,111 0 0	1,00,734 0 0	20,315	10,000	30,315

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 9TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 8TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	16,197	129	125	16,000	128	125	6,76,670	111	125	6,00,001	113	16,100	

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 8th March 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,710	8,120 0 0	26,100 0	2,000 0 0	80 0 0	10,200 0 0	2,400	600	3,000
Or per mile of railway ...	252	94 0 0	303 0	23 0 0	0 0 0	118 0 0			
For previous 9 weeks of half-year ...	144,820	28,000 0 0	2,00,700 0	20,730 0 0	1,000 0 0	63,540 0 0	21,200	7,000	28,200
Total for 9 weeks ...	166,530	61,850 0 0	2,26,800 0	22,730 0 0	1,000 0 0	64,540 0 0	23,600	7,600	31,200
COMPARISON.									
Total for corresponding period of previous year ...	17,900	8,770 0 0	14,000 0	1,000 0 0	200 0 0	7,000 0 0	2,400	600	3,000
Per mile of railway corresponding period of previous year ...	208	101 0 0	163 0	12 0 0	0 0 0	81 0 0			
Total to corresponding date of previous year ...	144,771	28,000 0 0	1,22,100 0	11,500 0 0	1,000 0 0	61,610 0 0	20,800	6,000	26,800

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 9TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 8TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,000	80	86	10,000	116	86	2,00,000	60	86	2,70,000	60	10,000	

* Audited up to week ending 31st December 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 8th March 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,423	1,180 0 0	18,723 0	583 0 0	23 0 0	2,103 0 0	249	254	703
Or per mile of railway	126	43 0 0	677 0	21 0 0	1 0 0	77 0 0	.....	.....	.....
For previous 5 weeks of half-year	21,800	10,308 0 0	1,16,000 0	7,350 0 0	613 0 0	18,071 0 0	4,343	4,401	8,744
Total for 5 weeks	22,013	11,488 0 0	1,21,816 0	8,308 0 0	633 0 0	20,176 0 0	4,592	4,745	9,337
COMPARISON.									
Total for corresponding week of previous year	4,461	1,700 0 0	10,187 0	330 0 0	13 0 0	2,047 0 0	300	327	1,627
Per mile of railway corresponding week of previous year	164	63 0 0	363 0	24 0 0	.....	77 0 0	.....	.....	.....
Total to corresponding date of previous year	24,364	12,854 0 0	1,46,021 0	8,347 0 0	163 0 0	21,374 0 0	4,944	5,271	10,215

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 9TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 8TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 8TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Passengers.	Receipts.	Per mile worked.	Passengers.	Receipts.	Per mile worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
27½	2,947	97	27½	2,105	77	27½	90,615	76	27½	90,167	75	.....	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 16th March 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,614	1,183 0 0	14,733 0	1,040 0 0	18 0 0	2,241 0 0	250	254	703
Or per mile of railway	130	43 0 0	516 0	24 0 0	1 0 0	83 0 0	.....	.....	.....
For previous 5 weeks of half-year	21,304	11,634 0 0	1,21,700 0	8,318 0 0	633 0 0	20,267 0 0	4,373	4,126	8,500
Total for 5 weeks	20,718	12,717 0 0	1,16,430 0	9,355 0 0	633 0 0	22,528 0 0	5,341	5,390	10,731
COMPARISON.									
Total for corresponding week of previous year	2,900	1,030 0 0	9,402 0	512 0 0	16 0 0	2,061 0 0	300	326	1,146
Or per mile of railway corresponding week of previous year	163	56 0 0	342 0	19 0 0	1 0 0	76 0 0	.....	.....	.....
Total to corresponding date of previous year	24,364	12,854 0 0	1,33,223 0	8,700 0 0	161 0 0	23,335 0 0	5,453	5,900	11,353

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 16TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 16TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Passengers.	Receipts.	Per mile worked.	Passengers.	Receipts.	Per mile worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
27½	2,061	76	27½	2,261	83	27½	90,676	75	27½	90,530	75	.....	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 15th March 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	65,005	17,461 0 0	2,51,853 0	20,223 0 0	3,509 0 0	40,994 0 0	6,251	5,086	11,337
Or per mile of railway ...	165	64 0 0	923 0	74 0 0	13 0 0	150 0 0	22	18	40
For previous 9 weeks of half-year ...	470,649	2,02,761 0 0	25,79,845 0	2,96,320 0 0	21,704 0 0	3,23,894 0 0	85,850	69,057	1,44,907
Total for 10 weeks ...	535,704	2,20,223 0 0	28,31,690 0	3,26,640 0 0	25,183 0 0	3,64,888 0 0	91,900	74,143	1,66,043
COMPARISON.									
Total for corresponding week of previous year ...	61,944	15,700 0 0	1,20,373 0	10,300 0 0	2,400 0 0	28,700 0 0	4,400	4,000	8,400
Per mile of railway corresponding week of previous year ...	154	57 0 0	440 0	37 0 0	1 0 0	115 0 0	16	15	31
Total to corresponding date of previous year ...	448,179	1,71,004 0 0	14,02,200 0	1,41,254 0 0	22,434 0 0	3,44,882 0 0	80,619	61,532	1,42,151

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 16TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 15TH MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MARCH 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	22,700	120	273	20,004	100	263'00	16,94,195	125	273	20,00,004	110	6,76,000	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 1st March 1890 ...	9,708
Corresponding period of 1889 ...	10,234
Decrease ...	526
Receipts per mile for week ending 1st March 1890 ...	Rs. A. P. 190 6 8
Corresponding period of 1889 ...	200 10 11
Decrease ...	10 5 3
Receipts from 1st January to 1st March 1890 ...	69,619
Corresponding period of 1889 ...	67,039
Increase ...	2,580



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 2, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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APPOINTMENT OF SUB-DEPUTY COLLECTORS DURING THE YEAR 1890.

APPOINTMENT DEPARTMENT.

Calcutta, the 27th March 1890.

RESOLUTION.

READ—

The Resolution, dated the 24th April 1889, regarding the recruitment of the Subordinate Executive Service.

Read—

The notification, dated the 1st June 1889, publishing the rules for the examination held in January 1890.

Agreeably to the orders contained in paragraph 18 of the Resolution and paragraph 8 of the notification read in the preamble, an examination was held in January last of the candidates for appointment as Sub-Deputy Collectors who had been registered in this office. Only eight candidates appeared at it, and the following gentlemen are declared to be eligible for appointment as Sub-Deputy Collectors during the year 1890:—

- 1 Babu Upendra Nath Ghosh, B.A.
- 2 " Jnanendra Mohun Ghosh, B.A.
- 3 " Krishna Lal Dey.
- 4 " Debendro Prosad Roy.
- 5 " Surendra Lal Mitra.

Four of the above named gentlemen—Babus Upendra Nath Ghosh, Jnanendra Mohun Ghosh, Krishna Lal Dey, and Debendro Prosad Roy—have been appointed to fill vacancies as Officiating Sub-Deputy Collectors of the fourth grade. The fifth gentleman, Babu Surendra Lal Mitra, is posted to the sudder station of the 24-Pergunnahs as a probationer on a subsistence allowance of Rs. 30 per mensem, and will be employed on general work of such a kind as may be allotted to him by the District Magistrate. On the expiration of the terms of the acting appointments of the four gentlemen named above, they will revert as probationers at the sudder stations of the districts in which they have been officiating, and will be similarly employed there by the District Magistrates.

ORDER.—Ordered that the above Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal.

JOHN EDGAR,

Chief Secretary to the Government of Bengal.

The 1st April, 1890.—The following is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

POONA INDUSTRIAL MUSEUM—SALE BRANCH.

Rules under which goods from Merchants and Manufacturers will be admitted for sale.

1. There will be a Sale Section attached to the Poona Museum in which merchants, manufacturers and artisans will be allowed to keep for sale, on commission, such of their goods and productions as the Museum Committee will admit.
2. Merchants and manufacturers and artisans wishing to avail themselves of the benefits of the Sale Section of the Poona Museum must apply to the Committee in writing for accepting their goods for sale, and must express their consent in writing to abide by these or any other rules the Committee frames.
3. The quantity of the stock to be kept for sale will be determined by the Museum Committee.
4. The rates to be charged by the merchants and manufacturers to the Committee for the articles for sale shall be fixed before they are sent to the Museum, and they shall be the wholesale or trade rates.
5. The Committee will be at liberty to enhance the prices of the articles to cover transit charges, &c.
6. The Committee will ordinarily charge commission at 5 per cent. on the original prices of the goods sold—or at such rate as may be agreed upon between the Committee and the parties.
7. The amount, after deducting Committee's commission, realized by the sale of the articles will be remitted quarterly to the owner and the account adjusted at the end of the year.
8. Whenever it may be found that particular goods are not saleable at profit, they will be returned to the owners at their risk and cost, unless they desire to sell them off at the highest rates obtainable.
9. The Committee will not be responsible for any damages and losses during transit and any damages and losses by fire and other acts of God, whilst they are in the Committee's charge.
10. Notwithstanding anything contained in these rules or in the rules about the Museum, the Committee reserve to themselves the right of making special arrangements or contracts with individuals or firms.
11. Should any dispute arise between the constituents and the Committee, it shall be settled by arbitration. One arbitrator shall be chosen by each party and the two appointed shall nominate an umpire or sur-panch before proceeding with their work.
12. The Committee will undertake to distribute, on payment of reasonable fee, price lists, catalogues and samples amongst respectable merchants and gentlemen, in Poona or in the Deccan, as may be desired.

MUSEUM COMMITTEE'S OFFICE,

Poona, 26th November 1889.

D. J. GOKHALE.
N. B. KANITKER.
M. B. NAMJOSHI.

Honorary Secretaries.

BHADOI CROPS IN BENGAL, 1889.

The 28th March, 1890.—The following is published for general information.

CALCUTTA;
REVENUE DEPT.—Agri.,
The 28th March, 1890.

By order of the Lieut.-Governor of Bengal,
P. NOLAN,
Secretary to the Government of Bengal.

STATEMENT II.—Estimated outturn of Bhadoi harvest reaped in August, September and October, 1889.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Names of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.*	REMARKS.
Burdwan	Sudder	1,249	993	111	Aus, mail, and kele.	10 annas	Deficiency of rainfall; (a) ploughing time and (b) sowing time.
	Raneegunge	671	396	30	Ona, beri	13 "	There was deficient rain at ploughing time.
	Outwa	344	205	22	Early paddy, via— Tara " " Niali " " Janti " " Kele " "	8 "	The crops were affected by deficiency of rain in ploughing, sowing and maturing time.
	Culina	622	360	20	Aus	10 "	(1) It was much affected this year for insufficient rainfall at ploughing and sowing time. (2) A little damage to this crop was done by flood in low lands.
	District Total	2,886	1,954	183		10 annas.	
Bankura	Sudder	1,231	679	45	Early paddy, aus, kele, talha chahi, panchajuli, kala-kandi.	14 annas	Deficiency of rainfall in the month of Sravan (July--August) affected the full growth of these crops, which would otherwise have yielded an outturn above the average.
	Bishnupore	700	330	23	Early paddy, aus, and kele.	16 "	There would have been a bumper crop had there not been deficiency of rainfall at the sowing season.
	District Total	1,931	1,009	68		15 annas.	
Medinipur	Sudder	1,108	777	173	Aus	10 annas	Deficiency of rainfall after sowing affected the crop slightly in thana Kankutipore, but this has been more than made up by unusually good crops elsewhere.
	Rampershat	646	400	64	Aus	15 "	The crops in the high land suffered from deficiency of rainfall.
	District Total	1,754	1,177	237		15½ annas.	
Midnapore	Sudder	3,134	1,767	390	Aus, til, maize, buri.	13½ annas	
	Contai	341	710	60	Aus, til, Mustard, Kalai	16 "	Partial failure for want of sufficient rainfall at the ploughing and sowing time.
	Ghatal	340	226	22	Jute and paddy	14 "	
	Tamluk	600	440	20	Aus, jhauji, til and pulaga.	12 "	
					Aus	15 "	Suffered from deficiency of rainfall just before the harvesting time.
	District Total	5,115	3,173	510		14 annas.	
Hooghly	Sudder	641	270½	25½	Aus	8 annas	The crop was much damaged by the deficiency of rainfall throughout the season.
	Baranpore	343	230	20½	Aus	10 "	Deficient rainfall just after transplanting caused a little damage to the crop.
	Jahanabad	400	263	27	Aus	16 "	There was deficiency of rainfall at the ploughing and sowing season.
	Howrah	171	103	8	Aus	15 "	There was deficiency of rainfall at the ploughing time.
	Odoberiah	303	200	23	Aus and kele	15 "	
Barrackpore	District Total	1,658	1,066½	203		13 annas.	
	Sudder, including Baranpore.	1,070	717	66	Aus	15 annas	
	Diamond Harbour.	613	463	15	Aus	14 "	Deficiency of rainfall at ploughing and sowing time.
	Harriet	393	243	20	Aus	10 "	
	Basirhat	630	430	70	Aus and boro	16 "	
	Baranpore	42	13	3	Aus	10 "	
	Dum-Dum	24	21	3	Aus	12 "	
	District Total	2,602	1,895	191		15 annas.	
Bengal	Sudder	1,578'60	800	23	Aus, boro and khar-mani rice.	11 annas	
	Balkhira	1,377'93	410	44	Ditto	8 "	Deficiency of rainfall at the time of ploughing and sowing.
	Basirhat	1,504'63	500	60	Ditto	11 "	
	District Total	4,460'16	1,710	127		10 annas.	

* This includes Sunderbans 5,779'91 square miles appertaining to this district.

† 10 annas represents a bumper crop, 15 annas a full average crop, and 12 annas three-fourths of an average crop.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Name of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.	REMARKS.
Nuddea	Sudder	761	684	291	Aus, jute, sugar-cane.	8 annas	Affected by want of rain at the sowing time and by floods.
	Kushia	559	419	300	Aus, jute, indigo...	4 "	Want of rain at the sowing time and harvest. Last season and floods did great damage to the crops.
	Moherpore	627	500	440	Aus Kaon Bhurah Kodo Jute Indigo	8 10 10 10 10	Sowing was very late for want of rain. A good deal of damage was done to aus paddy by floods just before it was harvested.
	Chundanga	487	273	300	Aus	6 "	
	Ranaghat	687	326	199	Aus Jute Indigo	10 8 10	This crop was very much damaged by floods. The rains were late this year, but afterwards there were such heavy and continued showers as to prevent the weeding operations. Bhadoi crop in chur lands and riparian villages was also damaged by floods.
	District Total	2,750	1,930	1,331		9 annas.	
Jessore	Sudder	859	678	210	Aus Jute	12 11	The crops were affected at the sowing season by deficiency of rainfall and at the harvest time by flood.
	Hongong	649	500	194	Aus	16	
	Narail	497	363	915	Aus	8	
	Magoore	425	300	84	Aus Jute Til Indigo	8 12 13 13	
	Jhenidah	673	317	60	Aus Jute	Less than 12 Less than 12	
	District Total	2,923	1,514	639		11 annas.	
Moorshedabad	Sudder	767	576	330	Aus	8 annas	Sowings were delayed by deficient rainfall, but nearly all the usual area was sown. The crop suffered much from flood at the time of harvest.
	Lalbagh	372	223	74	Aus	8	
	Jungipore	566	444	116	Aus	12½	
	Kandi	512	400	41	Aus	8	
	District Total	2,489	1,653	551		9 annas.	
Dumapore	Sudder	1,251	1,000	390	Aus Jute	10 6	Short outturn is due to deficient rainfall at the time of ploughing and sowing, and excessive rain afterwards which impeded the weeding of the crops.
	Thakurgaon	907	650	180	Aus Jute	7 6	
	District Total	2,158	1,650	570	Aus Jute	8½ 6	
Rajshahye	Sudder	914	586	213	Aus and jute Kaon	12 10	Drought during the sowing season kept back the crops, and unusual heavy rain in June drowned the young seedlings.
	Natore	617	291	213	Aus Til Kaon Jute	10 10 7 8	
	Nawgong	603	500	280	Jute Aus Til Kaon	12 16 8 8	
	District Total	2,344	1,076	763		10 annas.	
Rongpore	Rongpore	1,161	900	290	Aus, jute and indigo.	16 annas	Excessive rain at the harvest time affected the outturn. Deficiency of rain at the sowing time and frequent heavy rains at the harvesting time caused injury to the aus and jute crops.
	Nalphanari	636	440	130	Aus and jute	12	
	Kurigram	907	700	490	Ditto	16	
	Gaibanda	780	570	130	Ditto	14	
	District Total	3,464	2,630	940		14½ annas.	
Bogra	Bogra	1,462	913	300	Aus Jute	13 10	At the time best suited for ploughing and sowing the drought was prolonged, but afterwards there was plenty of rain. A considerable quantity of both the crops in the east of the district was destroyed by floods, and in the extreme north-west there was too much rain in June. In the middle of the district and in much of the eastern half also, the crops were excellent.
Pabna	Sudder	596	667	367	Aus Jute Til Kaon	6 12 12 12	The deficiency of rainfall in the ploughing and sowing season affected the bhadoi crop, subsequently the high floods of the river Padma submerged the aus crop in the low lands.
	Serajgunge	987	713	200	Aus Jute Til Kaon	8 14 12 8	
	District Total	1,547	1,380	560		9 annas.	The crops suffered from deficiency of rainfall in the sowing season and subsequently injured by the floods of the Jumna river.

1	2	3	4	5	6	7	8	
DISTRICT.	Sub-divisions	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Names of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.	REMARKS.	
Darjeeling	Kurseong ...	165	13	13	Aus, maize, marua	12 annas	Owing to seasonable rainfall the outturn was better than that of last year.	
	Siligurree ...	263	174	106	Aus and jute	15 ..		
	Kalimpong ...	736	89	75	Maize, aus, kaon, marua, and phappar.	13 ..	Excessive rainfall affected the crop to a certain extent.	
	Darjeeling ...							
	District Total	1,164	276	185	...	About 13 annas.		
Jalpaiguri	Ryknepore pergunnah ...	447	396	138	Aus	12 annas	Deficiency of rainfall at the sowing time and excessive rainfall at the time the plants were in full growth affected the outturn of the aus paddy.	
	Beda pergunnah ...	607'38	296	95	Jute	12 ..		
	Patgram pergunnah ...	80'36	75	18	Aus	9 ..		
	Mynasore taluk ...	514	263	54'08	Jute	10 ..		
	Pullacotta taluk ...	768	330	60	Aus	11 ..		
	Alipore taluk ...	517	309	80	Jute	12 ..	A full crop was obtained owing to favourable distribution of rainfall everywhere.	
	Rhaika sub-taluk ...	129	50	5	Aus	13 ..		
	District Total	2,651'00	1,441	410'08	Jute	14 ..		
					Aus	11 annas.		
					Jute	12 ..		
	Dacca	Sudder ...	1'806	638	311	Early paddy, viz.— Garia, monohha-kani, bhata sail, bore, kalamank, poranghi, shada, kalathore and pantaich.	14 annas	Paddy and jute were partially affected by want of rain at the time of sowing and afterwards by unusual rise of rivers.
					Grass	16 ..		
					Jute	14 ..		
				Sugarcane...	11 ..	Sugarcane was greatly damaged by unusual rise of rivers.		
Manikgunge		489	366	66	Early paddy, viz.— Kalamank, karo-hamuri, goria, garahwar, ph-rangi, shatia.	10 ..	Want of rain at the sowing time, excessive rainfall in June and July, and high floods have caused much damage to the crops.	
Munshigunge		401	300	30	Jute	13 ..		
				Grass	18 ..	Jute was partially affected by want of rain at the time of sowing.		
				Aus	16 ..			
			Sugarcane	14 ..				
Naraingunge	641	260	20	Early paddy, viz.— Surjamukhi, ghur-mora, boajari, salta, lema, pan-kaji, mas lema, saraul, jetha-bhaduri, ah-chhaya, bhainsaja, sakar, bamajuri.	13 ..	Some damage has been done by floods.		
District Total	2,797	1,640	417	.....	18½ annas.		
Faridpur	Sudder ...	680	602	80	Aus	8 annas	The crop suffered from (1) deficiency of rain at the time of sowing and ploughing, (2) unusual floods at the time of harvesting.	
	Madaripur ...	979	648	64	Early paddy, such as aus, bore, asul digha.	8 ..		
	Goalando ...	489	321	143	Aus	7 ..		
	District Total	2,267	1,573	292	.....	8 annas.	
Buckergunge	Barisal	1,111	620	120	Aus	12 annas	The crop was slightly affected by deficiency of rainfall at the time of ploughing and sowing, and by floods at the harvesting time.	
	Porosopura	693	531	100	Do.	16 ..		
	Pataktally	1,235	780	100	Do.	14 ..		
	Rhola	616	400	100	Do.	16 ..		
	District Total	3,640	2,030	440	14½ annas.		
Mymensingh	Sudder ...	1,840	1,031	270	Early paddy, such as— Hupa, Boudia, Horon, Hailam, Gayni, Bhidraon	16 annas.	Crop was affected by the floods in August last.	
	Attia	1,051	780	288	Aus	10 ..		
	Jamalsore	1,344	630	277	Early paddy, such as— Chitri, Gnyal, Balm bhugri, Moushati, Malaram, Garata, Haran, Doria, Jalar Sail, Subarnakharika, Chong Khaga, Nayal Ghul, Suja Thubri	12 ..		

1	2	3	4	5	6	7	8
District.	Sub-division.	Total area of sub-division in square miles.	Total area of estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Name of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.	REMARKS.
Mymensingh	Netrokona	1,369	604	100	Early paddy, such as— Bont, Bontia Gajal, Agali Kanchibatu Bakribati Charnok Bhadron Chanda Surjamukhee Kanakchapa Bhajan Meherful Kaschi lahir Cheta Mahinatti Lena Ara	12 annas	Excessive rainfall during the time of weeding and harvesting affected the crop.
	Kishoreganj	744	350	90	Ara	12	Crop was affected by the floods in August last.
	District Total	2,113	954	190		12 annas.	
Tippurah	Brahmanbaria	780	55.00	120.42	Early paddy, viz.— Jote jote Ara jote Satta	10 annas	Owing to timely rain during the ploughing and harvesting season, the outturn this year is more than that of the last year.
	Chandpur	880	415	60	Ara	10	
	Comilla or Sunder sub-division.	1,100	630.5	171.3	Early paddy, such as— Kamini mat Satta	14	
	District Total	2,400	1,525.5	351.7		10 annas.	
Noakhali	Sudder	1,200	1,000	204	Batam Sheta Green Shultanbhog Harah Rilua Chiknal Bhaduri Shatal	10 annas	The outturn is below the average owing to insufficient rain at the time of ploughing.
	Fenny	343	200	30	Shatal	12	
	District Total	1,543	1,200	234		14 annas.	
Chittagong	Sudder	1,000	611.25	120.8	Early paddy, viz.— Batam hastu Chiknal Khaya Pema ara Kha ara	10 annas	The rainfall was timely and sufficient in the Sudder sub-division.
	Cox's Bazar	287	633.00	20.10		16	The rainfall was very evenly distributed throughout the season and was sufficient.
	District Total	1,287	1,244.25	140.9		17 annas.	
Chittagong Hill Tracts	Sudder	3,553.5	16.93	37.40	Jun paddy Cotton	10 annas	The rainfall, though below the average, was fairly distributed, and the outturn of jun paddy was a good one.
	Sansoo	1,335.5	22.76	12.76	Ditto	8	The outturn of cotton, which has not yet been gathered, is reported not to be so good as was expected.
	District Total	4,889	39.69	50.16		9 annas.	
Patna	Sudder	617	467	61	Maize and marua	10 annas	Bhadoi crops of Dearah lands were damaged by floods.
	Dinapore	143	110	20	Maize Kodo Marua Paddy	7 1/2	There was timely rainfall at the ploughing and sowing time, but there was some rain at harvesting time damaged the crops to some extent, as also the flood of the Ganges damaged the bhadoi on the Dearah lands.
	Barh	836	225	25	Maize Jowar Kaon and marua	10	The poor outturn is due to the high floods inundating the crops in August. The crops were under water for two weeks.
	Behar	780	678	166	Marua Maize Kodo Kaon	10	
	District Total	2,076	1,480	272		12 annas.	
Gya	Sudder	1,230	1,684	143	Marua, maize, sathi, urid, biri.	10 annas	
	Anrangaabad	1,346	747	37	Mokal, marua, koto, urid, barai and sathi.	14	
	Nowada	1,020	765	65	Mokal, marua, aruan, sathi, urid, kangum, jowar, til.	14	
	Jehanabad	607	513	60	Mokal, marua, sathi.	10	
	District Total	4,103	3,709	305		10 annas.	Rains during the months of July and August were especially suitable to bhadoi crop, and hence the marked success of the crops.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Names of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.	REMARKS.
Bhabua	Arrah ...	918	778	70 75	Serha ... Sathi ... Kodo ... Marua ... Koon ... China ... Maize, large and small ...	8 annas	The deficiency in the outturn is due to excessive rainfall and inundation at harvest time, which damaged the crops considerably.
	Buxar ...	606	563	53	Serha, sathi Juar, sawan Marua, bajra Jouri, koon Kodo, urid and ul ...	10 "	The crops this year suffered in general from excessive rainfall after they had germinated. The long continued rainfall of July had considerably retarded the weeding of the crops.
	Bhabua ...	1,301	976	128	Serha, sathi, sawan Marua, maize ...	14 "	In the tracts lying beyond the river Ganges the crops were partly washed away and partly submerged by the unusual flood of the river.
	Samatran ...	1,483	687	76	Serha ... Sathi ... Maize ... Koon ... Marua ... sawan ...	14 "	The crops were affected by deficiency of rain at the time of sowing.
	District Total	4,308	3,004	358 73	.....	11½ annas.	
Ghazipur	Sudder	1,222	929	200	Marua ... Maize ... Gambhri ... Shams and koon ...	15 annas	The season was most favourable for bhadoi, and but for the rising of the Karai, Bagmati and other streams, a bumper crop would have been secured.
	Tajpur	784	640	414	Marua ... Maize ... Sama ...	15 "	
	Madhubani	1,340	1,022	250	Marua ... Aua ... Makai ...	14½ "	Slightly affected by the floods in August.
	District Total	3,346	2,603	1,064	.....	About 17 annas.	
Gazipur	Moanipur	1,318	987 03	285 97	Maize ... Marua ... Koon ... Sawan ... Kodo ... Sathi ... China ...	6 annas	These crops, specially makai, were extensively damaged by floods at the end of July and beginning of August.
	Hajipur	771	529 5	206 4	Maize ... Marua ... Sawan ... Kodo ... Urid ... China ... Janera ...	9 "	Damage caused by excessive rainfall throughout the season, and inundation of the Ganduck and Bagu rivers.
	Sitamarhi	1,014	770 64	269	Maize ... Marua ... Janera ... Sawan ... Kodo ... Koon ... Ashu ...	10 "	The crop would have been a bumper one this year but for the extensive floods of Bagmati and other rivers.
	District Total	3,003	2,287 17	862 07	.....	10 annas.	
	Sudder	906	640	201	Maize ... Marua ... Janera ... Sama ... Sathi ... Kodo and Tan ... gum ... Masuri ...	10 annas	Ploughing and sowing were carried on with great facility, but in some places the crop while in flower was damaged by floods. The average outturn was thus reduced to 10 annas all over the district.
Gopalganj	Sewan	653	605	165	Maize ... Marua, sathi ... Sawan, Tungani, masuri, bajra and kodo ...	12 "	Damaged by excessive rainfall.
	Gopalganj	771	663	240	Maize ... Marua ... Sawan ... Tungani ...	14 "	A little damage was done by floods.
	District Total	2,028	2,103	665	.....	12 annas.	
Muzaffarpur	Moithari	1,618	1,022	602 9	Maize, sathi, sawan, marua.	11 annas	Makai in the Sudder sub-division seriously suffered from the heavy rainfall in the months of July and August. In some parts the crop was a total failure. Marua also suffered to some extent, but sathi rice yielded above the average in many cases repairing the loss of marua and makai.
	Mettiah	2,013	1,300	800	Maize, marua, sawan, kodo, benul, sawan.	12 "	The bhadoi crop, specially makai, was considerably damaged by heavy rains after sowing.
Muzaffarpur	District Total	3,631	2,323	1,403	.....	11½ annas.	

* This area is double cropped, being sown with bhadoi and rabbi in succession.

1	2	3	4	5	6	7	8
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Names of principal bhadoi crops.	Estimated returns of bhadoi crops expressed in annas.	REMARKS.
Meerghur	Sudder	1,500	1,091	800	China Wasa Marua Sama Kheri Kaon	9 annas	These crops were affected to some extent by excessive rain immediately after sowing were over, and subsequently damaged to large extent by the floods of the Ganges during the latter part of August and beginning of September.
	Begunsera	760	577	510	Maize Marua Kodo Kaon Sama	9 ..	
	Jamui	1,500	1,093	900	Maize Urid Chota Janera Moong China Marua Kodo Rori rice	14 ..	
	District Total	3,760	2,760	1,210	.....	about 11 annas.	
Bhawalpur	Sudder	600	600	100	Maize China Kheri	8 annas	Damaged by excessive rain at the sowing time and by floods in the Dearah lands.
	Banks	1,155	600	300	Maize Marua Bathi	12 ..	Affected by excessive rain at the sowing time and by deficiency of rain afterwards.
	Madhapura	872	600	100	Maize Aur	10 .. 16 ..	Excessive rain at the time of sowing and harvesting damaged marua. Excessive rain at the time of weeding and overflow of rivers caused some damage to the paddy.
	Sopoul	1,275	900	300	Aur Marua	16 .. 8 ..	Deficiency of rain at the ploughing time and excess of rain at the harvesting time caused a little damage to the crops. Heavy and frequent floods also damaged the crops, especially in the Kosi tract.
	District Total	4,902	3,600	900	.....	about 13 annas.	
Purneah	Sudder	2,072	1,000	600	Aur Marua Moong	8 annas	The high floods of the year in this district affected the bhadoi crops particularly.
	Arraresh	1,044	700	200	Aur Jute	10 .. 6 ..	Owing to the drought of April and May the seeds were sown late. The heavy rains of June and of early July prevented the weeding. The unusual floods of the 24th and 25th of July inundated the country, and the bhadoi crops to rot in the tracts under water.
	Kisongunge	1,340	1,000	120	Aur Sami Nijee Janera Aur Maize Masour Jetha Kharjura	21 ..	The crops were affected by the excessive rain during sowing time, and also damaged by floods afterwards.
	District Total	4,456	2,700	1,000	.....	9 annas.	
Malda	Whole district	1,300	1,100	400	Aur Sama Kaon Maize Jute Mulberry	4 annas	The crops were sown late for want of the rainfall, and were afterwards submerged by unusually high floods, hence the short return.
Santal Pargannas	Dumka	2,029	700	300	Maize, gundli, marua	14 annas	Affected by deficiency of rain at the sowing time and by excessive rainfall afterwards, also by floods.
	Deokhur	200	200	40	Aur, maize, marua, gundli, moong, etc.	12 ..	
	Godda	800	670	120	Maize, gundli, marua	11 ..	
	Rajmahal	700	500	100	Maize, gundli, marua	12 ..	
	Jamtara	600	200	110	Aur Maize Marua	8 ..	
	Pakour	400	511	170	Gundli Moong Bati	17 ..	
	District Total	5,400	3,007	910	.....	about 12 annas.	

1	2	3	4	5	6	7	8
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under bhadoi crops in square miles.	Names of principal bhadoi crops.	Estimated outturn of bhadoi crops expressed in annas.	REMARKS.
Cuttaek	Sudder	989	533	114	Beal and mandia, etc.	18 annas.	
	Panki	116	82	4	Beal	18 "	
	Kendrapara	1,474	801	177	Do.	18 "	
	Jajpur	1,104	800	80	Beal and mandia	18 "	
	District Total	3,683	1,865	305	About 18 annas.	
Balasore	Sudder	1,188	670	35	Beal	18 annas	Deficient rainfall affected the crop.
	Bhadruck	908	730	140	Do	16 "	
	District Total	2,096	1,390	175	14 annas.	
Poores	Sudder	1,880	730'300	74'003	Beal	14 annas	The ploughing operations were rather late owing to scanty rainfall in May, and when the sowing operations began in June, the rainfall was very heavy, and damaged the seedlings to some extent.
	Khordha	800'809	414'600	143'976	Mandia	14 "	
	District Total	2,680'202	1,134'900	218'979	14 annas.	
Bansaribagh	Girdih	2,446	1,230	283	Maize	17 annas	The crop was affected a little by excessive rainfall at both the ploughing and sowing time.
					Maria		
					Goondli		
					Urid, berai, ghani		
					Bathi, gora		
Head-quarters		4,273	2,808	882	Maize	15 "	
					Maria		
					Goondli		
					Urid		
					Harai		
District Total		7,011	3,673	1,164	Ghangri	10 annas.	
					Bathi		
					Gora		
					Digha		
						
Lohardugga	Sudder	7,784	1,673	274	Gora	18 annas	The rainfall was favourable to the crops.
					Maize	16 "	
					Goondli	16 "	
					Urid	16 "	
					Barai	12 "	
Palamow		4,300	2,130	498	Maria	16 "	
					Badi	16 "	
					Maize	16 "	
					Sawan	16 "	
					Marua	16 "	
District Total		12,084	3,803	700	Kodo	14 annas.	
					Urid		
					Goondli		
						
						
Manbhoom	Gobindpore	803	200	20	Maize	13 annas	Maize was slightly injured by rain in the early part of the year.
					Maria	16 "	
					Kodo	16 "	
					Goondli	16 "	
					Kheri	16 "	
Sudder		2,344	1,203	130	Biri	16 "	
					Maize	16 "	
					Gora	16 "	
					Biri	16 "	
					Kodo	16 "	
District Total		4,147	1,403	140	Goondli	About 16 annas.	
					Kheri		
						
						
						
Singbhoom	Kothan	1,946	973	450	Aus	18 annas	The outturn would have been a bumper one, but for a slight deficiency of rainfall towards the latter end of September and beginning of October.
					Maize		
					Goondli		
					Sawan		
					Kodo		
Porahat		800	267	61	Maria	15 "	
					Aus		
					Til		
					Urid or biri		
					Til		
Dhalbhoom		1,167	573	143	Moong	18 "	
					Kaon		
					Aus		
					Maize		
						
District Total		3,753	1,793	654	17 annas.	
						
GRAND TOTAL FOR THE WHOLE OF BENGAL.		124,919'712	87,086'230	23,788'040	

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 29th March 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.															
BENGAL.																		
Western Districts.																		
1	Burdwan March 29, '90	Nil	Weather—warm. Ginger and <i>til</i> are being sown, but rain is wanted for <i>til</i> . Pressing of sugarcane nearly over. Prices of common rice:— <table><tr><td></td><td>Srs.</td><td></td></tr><tr><td>Burdwan</td><td>...</td><td>16</td></tr><tr><td>Culina</td><td>...</td><td>15</td></tr><tr><td>Cutwa</td><td>...</td><td>10½</td></tr><tr><td>Raigunge</td><td>...</td><td>10</td></tr></table> } per rupee.		Srs.		Burdwan	...	16	Culina	...	15	Cutwa	...	10½	Raigunge	...	10
	Srs.																	
Burdwan	...	16																
Culina	...	15																
Cutwa	...	10½																
Raigunge	...	10																
2	Bankura „ 29, '90	Nil	Weather—hot. Rain wanted for cotton and <i>til</i> , and for ploughing of fields for next sugarcane and rice crops. Common rice 21 seers per rupee at Sudder and 19½ seers at Bisanpore.															
3	Birbhum „ 29, '90	Nil	Weather—hot. Wheat, gram, and <i>masuri</i> being gathered; outturn 12 annas. Rice selling at from 16 to 20 seers per rupee.															
4	Midnapur „ 29, '90	Nil	Weather—getting warmer. Nothing to report about the crops. Land is being ploughed in places. Indigo doing well. Silk cocoons sold from Rs. 24 to Rs. 30 a maund at Ghatal during the month. Prices of common rice:— <table><tr><td></td><td>Srs.</td><td></td></tr><tr><td>Contai</td><td>...</td><td>20</td></tr><tr><td>Sudder</td><td>...</td><td>19</td></tr><tr><td>Tamluk</td><td>...</td><td>16</td></tr><tr><td>Ghatal</td><td>...</td><td>18</td></tr></table> } per rupee.		Srs.		Contai	...	20	Sudder	...	19	Tamluk	...	16	Ghatal	...	18
	Srs.																	
Contai	...	20																
Sudder	...	19																
Tamluk	...	16																
Ghatal	...	18																
5	Hooghly „ 29, '90	Nil	Temperature rising. Strong east winds. Prospects of crops satisfactory. Prices of common rice:— <table><tr><td></td><td>Srs.</td><td></td></tr><tr><td>Sudder</td><td>...</td><td>12½</td></tr><tr><td>Jehanabad</td><td>...</td><td>17</td></tr><tr><td>Berampore</td><td>...</td><td>16</td></tr></table> } per rupee.		Srs.		Sudder	...	12½	Jehanabad	...	17	Berampore	...	16			
	Srs.																	
Sudder	...	12½																
Jehanabad	...	17																
Berampore	...	16																
	Howrah „ 29, '90	Nil	Weather—rather too warm for the season. Rain much wanted.															
Central Districts.																		
6	24-Parghs. March 29, '90	Nil	Weather—very hot during the greater part of the week. Want of rain has retarded ploughing for the early rice crop. Rain also wanted for the benefit of such crops as there are on the ground. Price of common rice 15 to 17 seers 9½ chittacks per rupee.															
7	Nuddea „ 29, '90	Nil	Weather—hot. Harvesting of wheat, barley, and gram is still going on. Cultivation of land for early rice proceeding. Rain much wanted.															
8	Kheolna „ 29, '90	Nil	Weather—hot. State of <i>boro</i> paddy good, and of <i>rubbi</i> crops, the harvesting of which is going on, fair, but rain is wanted for ploughing.															
9	Jessore „ 29, '90	Nil	Weather—hot with a good deal of south wind. Rain badly wanted for cultivation. Ploughing for early rice, &c., has commenced.															
	Narail „ 29, '90	0-23																
10	Meershedabad „ 29, '90	Nil	Weather—hot. Harvesting of <i>rubbi</i> crops continues. Lands are being prepared for <i>oro</i> paddy.															
11	Dinagepur „ 29, '90	Nil	Weather—hot with strong west wind. Sugarcane pressing continues. Land is being prepared for sugarcane and <i>bhadoi</i> . Prices stationary.															
12	Rajshahye „ 29, '90	Nil	Weather—very hot and dry. Rain badly wanted. <i>Rubbi</i> crops giving about 12 annas outturn. Tobacco outturn only 8 annas all round. Preparation of lands seriously retarded for want of rain.															
13	Rangpur „ 29, '90	Nil	Weather—sultry with very high westerly winds. The need for rain increases daily. <i>Aus</i> rice and jute sowings will be seriously prejudiced should it hold off much longer.															
14	Bogra „ 29, '90	0-10	Weather—hot and dry, with west winds. State and prospects of crops satisfactory. Pulses are being harvested. Sugarcane is being cut and pressed and the new crop is being transplanted. Ploughing for <i>oro</i> rice, jute, &c., is going on. Common rice is selling at 18 seers per rupee.															
	Newkhilla „ 29, '90	0-10																
15	Pabna „ 29, '90	Nil	Weather—hot. Cold-weather crops fair. Ploughing for next season going on. Prices keep high.															
16	Darjeeling „ 29, '90	0-02	Weather—getting daily warmer. Rain is badly wanted. Potatoes and <i>bhanta</i> are being planted. In the Terai lands are being ploughed for the <i>bhadoi</i> crops.															
17	Jalpigore „ 29, '90	Nil	Weather—strong breeze and warm during day. Prospects generally good. Harvesting of tobacco commenced; an average crop expected. Prices stationary.															









No.	District and date of return.	Rainfall at Muller Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca March 29, '90	0.04	Weather—hot and fine. No rain in the Narasingunge subdivision. Mustard and pulses nearly harvested. <i>Moro</i> paddy thriving. Cultivation going on for early rice and jute. Fodder is available. Common rice 13 to 16 seers per rupee.
	19 Furreedpur „ 29, '90	Nil	Weather—hot and close. Harvesting of <i>rubbi</i> crops continues. Prospects of <i>boro</i> paddy fair. Land is being prepared for jute, <i>aus</i> , and <i>aman</i> , but rain is badly wanted. Prices of common rice :— <div style="text-align: right; margin-left: 200px;"> <i>Sin.</i> Sudder ... 14 } Gaduldo ... 16 } per rupee. Madaripur ... 15 } </div>
	20 Backergunge „ 29, '90	Nil	Weather—hot and cloudy, but no rain. <i>Rubbi</i> crops in the subdivisions good, but in the Sudder suffering from want of rain. Rice selling at 13 seers per rupee.
	21 Mymensingh „ 29, '90	Nil	Weather—hot with foggy mornings. Prospects of crops good. Common rice sells at 18 seers 14 chittacks per rupee.
Chittagong Div.	22 Chittagong „ 29, '90	Nil	Weather—seasonable. Chillies thriving.
	23 Noakholly „ 29, '90	Nil	Weather—warm and cloudy. Harvesting of all <i>rubbi</i> crops, except chillies, completed. Preparation of soil for <i>aus</i> going on. Common rice is sold at from 12 to 18 seers per rupee at head-quarters and 17 seers at Fenny.
	24 Tipperah „ 29, '90	Nil	Weather—unseasonably hot and dry. <i>Boro dhan</i> ripening. Jute and <i>aus</i> being sown. Chillies being gathered. Rain wanted for cultivation and crops.
	25 Chittagong Hill Tracts „ 28, '90	Nil	Weather—very hot throughout the week; cloudy with variable winds, mostly south-east. Jam cutting still continues. Sugarcane being transplanted. Gathering of tobacco and chillies commenced. First, second and third class rice being sold at 11 seers 7 chittacks, 13 seers 5 chittacks, and 16 seers per rupee respectively.
BHAMAR.	Hill Tipperah „ 29, '90	Nil	Weather—cloudy and unsettled. Lands still being prepared for sowing <i>aus</i> paddy. Jams being burnt in the hills.
	26 Patna „ 29, '90	Nil	Weather—hot. Harvesting of <i>rubbi</i> crops still going on. New wheat, gram, and peas are being brought into markets for sale; outturn estimated at 12 annas. <i>Cheena</i> is being sown in the Behar subdivision. Prices of food-grains almost stationary.
	27 Gaya „ 29, '90	Nil	Weather—hot. <i>Rubbi</i> crops are being harvested. Prices of food-grains stationary.
	28 Muzhabad „ 29, '90	Nil	Weather—mornings cool, days getting hot; westerly wind prevails. Harvesting of <i>rubbi</i> crops still continues, but almost completed. Sugarcane is being planted. Prices stationary.
PATNA Div.	29 Durbhanga „ 29, '90	Nil	Weather—strong west wind prevailing. Harvesting of <i>rubbi</i> not yet completed. Paddy and <i>mung</i> on chur lands are being sown; those sown before are germinating well. Prices almost stationary.
	30 Moufforpar „ 29, '90	Nil	Weather—warm. Strong west winds in day time. <i>Rubbi</i> harvest continues; nearly completed in the north. Paddy, <i>mung</i> , and <i>cheena</i> being sown. Collection of opium completed; outturn somewhat less than usual.
	31 Sarun „ 29, '90	Nil	Weather—fine and dry with strong west wind. Cool mornings and evenings. Indigo sowings normal, but the crop is doing badly. Poppy about a 10-anna crop. <i>Rabar</i> , oat, gram, and linseed 16 annas. <i>Rubbi</i> harvesting completed.
	32 Champaran „ 29, '90	Nil	Weather—days hot, but nights cool. High west wind blowing. Harvesting of <i>rubbi</i> continues. Opium collection almost finished; estimated outturn from 12 to 13 annas. Weighment of opium begins from 7th proximo. Indigo growing. Sowing of paddy, <i>cheena</i> , and <i>mung</i> progressing. Prices of food-grains easy.
BANGALORE Div.	33 Monghyr „ 29, '90	Nil	Weather—dry and hot. Strong westerly wind prevailing. Harvesting of <i>rubbi</i> nearly completed. Prices of food-grains stationary.
	34 Bhagulpur „ 29, '90	Nil	Weather—hot, strong west wind prevailing; cloudy at times, but no rain. Harvesting of <i>rubbi</i> still in progress. Outturn of linseed and wheat estimated at 8 annas.
	35 Purneah „ 29, '90	Nil	Weather—strong westerly winds in the day; nights and mornings cool. Tobacco harvested; outturn 12 annas in Kishengunge, but somewhat less in the west of the district. <i>Rubbi</i> crops being harvested with fair outturn. <i>Bhadai</i> and jute cultivation progressing favourably.
	36 Maldah „ 29, '90	Nil	Weather—hot and dry. Strong west wind prevails. Harvesting of <i>rubbi</i> crops continues; an average outturn expected. Rain much wanted for <i>boro</i> paddy and for preparation of lands for <i>bhadai</i> and winter sowings. Prices of common rice slightly risen.
	37 Sonthal Pergna „ 30, '90	Nil	Weather—getting hot. Harvesting of <i>rubbi</i> complete in most parts. Outturn of linseed estimated at 10 annas at Pakour, and the total yield of <i>rubbi</i> estimated at 12 annas at Rajmoul. Sugarcane promises well but rain needed.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Divn.	38 Cuttack March 29, '90	Nil	Weather—morn'g foggy, days hot. Standing crops in some parts of the Jajpore subdivision, as well as in the Banki tehal, have been damaged by hail-storm. In other places prospects continue good.
	39 Pooner „ 28, '90	Nil	Weather—seasonable. Lands are being ploughed for the ensuing <i>sarad</i> crop. <i>Mung</i> is in pod. Prices of rice stationary. Banpur police reports the appearance of a kind of white insects doing injury to the <i>mung</i> crop.
	40 Balasore „ 29, '90	0.28	Weather—seasonable. Fields are being ploughed all over the district. Some 160 coolies are employed on the relief works opened by the District Board near Talpada.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
Chota Nagpore Divn.	41 Hazaribagh March 29, '90	Nil	Weather—seasonable. <i>Mohra</i> and mango promise well. Poppy has not yielded so well as expected. No other crops to report about.
	42 Lohardugga „ 29, '90	Nil	Weather—days hot and nights cool. <i>Rubbi</i> harvesting nearly finished. Yield of mustard 8 annas in Palamow, where <i>mohra</i> crop also reported to be not very successful this year. Sugarcane progressing.
	43 Singhbhum „ 29, '90	0.03	Slight rain. Weather getting very hot; clouds come up almost every evening. Reports of crops, particularly <i>mohra</i> , excellent from almost every quarter.
	44 Manbhum „ 29, '90	0.01	Weather—seasonable. Wheat, barley, and gram ripening; average outturn 10 annas. Coarse rice selling at from 18 to 22 annas per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 1st April, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 23rd to 29th March 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 52° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
March	23rd	149.6	10.3	29.099	85.4	96.7	23.2	73.5	74.8	0.724	69.6	63	NNW and SSW	72	Nil	Cloud. 
"	24th	149.9	9.9	721	85.8	97.5	22.5	75.0	78.3	.867	74.9	78	SSW and calm	72	"	Clear, 
"	25th	149.9	9.2	.670	86.9	98.5	21.4	77.1	79.2	.894	75.8	73	SSW and WSW	104	"	Morning cloudy, day and night clear, 
"	26th	151.5	9.2	.693	86.7	99.3	23.1	76.2	76.4	.776	71.6	65	Calm and variable	45	"	Clear,  
"	27th	150.5	9.1	.729	85.5	97.9	23.3	74.3	74.6	.716	69.2	63	Calm and variable	49	"	Morning partially cloudy, day and night clear, 
"	28th	149.8	9.4	.765	86.0	98.9	23.7	75.2	75.5	.743	70.4	70	WSW and S	96	"	Chiefly clear,  
"	29th	152.6	9.0	.763	87.0	100.8	23.7	77.1	75.1	.711	69.0	65	W and variable	84	"	Chiefly clear.

The mean pressure of the seven days 29.720

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.776

The total number of hours of bright sunshine 66.1

The maximum possible number of hours of sunshine 85.4

The mean temperature of the seven days 86.2

The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 83.4

The extreme variation of temperature 27.3

The maximum temperature 100.8

The highest velocity of the wind in one hour 10

The highest pressure of wind on one square foot Not measurable.

The mean relative humidity 64

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 66

The total fall of rain from 23rd to 29th March 1890 Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office 0.20

The total fall from 1st January to 29th March 1890 1.10

The average fall of the corresponding period for 24 years, S.-G.'s Office 2.77

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h. and 22h.



The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast,  dew,  fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 31st March 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 3 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Tests.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 3 A.M. temperature.
Orissa.	Pooree	Gopalpur	29.745	29.797	—	C. & S.W. southerly	120.0	90.7	24th Mar.	78.0	22-24 Mar.	87.8	70.0	83.4	—	81.0
		Paine Point	29.775	29.795	—	S.W.	80.0	80.7	27. 30 ..	77.8	23. 24 ..	86.1	73.4	83.4	+1.0	81.2
			29.779	29.801	—	S.W.	87.0	94.0	27th ..	70.0	23. 24 ..	80.0	71.2	83.6	+1.0	81.4
	Cuttack		29.725	29.804	—	Calm	67.0	105.4	27th ..	75.8	23rd ..	108.2	77.0	86.0	+3.2	81.7
North-West Midnapore.	Balasore		29.729	29.788	—	S & N	102.8	90.8	28th ..	71.6	28th ..	94.1	75.2	83.7	+1.0	73.4
		Saugor Island	29.773	29.798	—	S.W.	238.0	97.2	27th ..	76.6	28th ..	91.1	78.0	85.0	+2.1	82.0
	Midnapore		29.648	29.799	—	S	181.6	107.4	26th ..	73.2	27th ..	102.0	74.6	88.8	+4.6	82.0
	24 Pergunnahs	Howrah	29.772	29.794	—	Calm & S.W.	79.0	99.4	27th ..	73.7	23rd ..	97.1	75.3	84.2	+3.9	83.0
South-West Midnapore.	Bardwan		29.679	29.780	—	Calm	48.0	108.2	26th ..	70.0	23th ..	100.2	72.3	84.0	+3.0	80.7
	Bankura		29.679	29.781	—	W	77.0	108.1	26th ..	70.6	23th ..	101.7	72.6	87.6	+4.2	81.0
	Raneegunge		29.670	29.786	—	N.W.	65.4	108.2	26th ..	71.1	24th ..	100.7	72.1	88.6	+3.4	82.2
	West Bardwan		29.784	29.773	—	Southerly	113.0	108.2	26th ..	67.2	23th ..	99.2	70.2	85.2	+2.6	82.4
Jessore.	Koddae		29.730	29.786	—	W.S.W.	117.0	108.7	26th ..	70.7	27th ..	109.3	72.6	86.3	+4.0	81.1
	Jessore		29.784	29.792	—	Calm	69.7	90.8	27th ..	72.4	23rd ..	96.4	76.0	87.7	+2.0	80.6
	Khoulna		29.783	29.785	—	S.S.E.	148.0	93.1	26th ..	73.0	23rd ..	87.2	75.7	81.5	+3.4	80.8
	Chittagong		29.783	29.785	—	S.S.E.	148.0	93.1	26th ..	73.0	23rd ..	87.2	75.7	81.5	+3.4	80.8
Chittagong Hill Tracts.	Demagiri		29.780	29.781	—	Calm	112.6	92.8	27th. 28th Mar.	72.4	23th ..	97.1	75.4	83.8	+3.3	81.1
	Backergunge		29.779	29.783	—	S	165.7	90.0	24th ..	67.6	22nd ..	87.6	75.7	81.6	+2.9	80.9
	Noakholly		29.766	29.786	—	S	115.8	96.5	23. 24. 25. 27. 28 Mar.	75.4	22nd ..	96.8	76.1	89.6	+1.4	81.2
	Farrukpore		29.768	29.791	—	S.W.	122.7	93.1	26th ..	70.2	22nd ..	93.2	74.6	84.1	+2.4	81.4
Dacca.	Commillab		29.776	29.812	—	Southerly	108.6	93.3	24th. 25th Mar.	72.8	22nd ..	91.8	75.4	85.0	+2.8	81.6
	Mymensingh		29.723	29.782	—	S.W.	95.7	94.8	26th ..	67.0	23rd ..	92.4	71.8	82.1	+2.1	81.8
	Bogra		29.672	29.735	—	S.W.	100.0	100.8	26th ..	68.0	24th ..	94.2	69.0	81.1	+3.9	82.0
	Pubna		29.710	29.760	—	S	97.3	97.4	26th ..	67.7	23rd ..	95.8	69.2	81.3	+3.2	82.2
Rajshahye.	Rajshahye		29.764	29.775	—	S.W.	102.0	100.6	24th ..	69.0	24th ..	98.0	71.8	84.0	+3.6	82.4
	Maidah		29.678	29.760	—	S.W.	110.0	101.0	26th. 28th Mar.	69.3	23th ..	90.2	68.3	83.7	+3.1	82.6
	Dinapore		29.686	29.739	—	S.W.	104.0	100.1	26th ..	68.7	24th ..	96.4	66.7	82.5	+3.4	82.8
	Bangalore		29.615	29.741	—	W	61.7	97.8	26th ..	62.9	23th ..	90.4	66.0	81.2	+3.5	83.0
Jalpaiguri.	Cooch Behar		29.429	29.723	—	Easterly	109.3	95.4	26th ..	64.4	26th ..	92.9	68.4	73.3	+0.7	83.2
	Darjeeling Hill Tracts		29.611	—	—	Variable	80.7	66.1	26th ..	63.0	23rd ..	82.5	67.7	75.1	+1.3	83.4
	Purneah		29.606	29.713	—	Southerly	240.0	99.8	26th ..	61.6	24th ..	96.9	63.6	81.0	+2.0	83.6
	North Bhagulpore		29.606	29.713	—	Southerly	240.0	99.8	26th ..	61.6	24th ..	96.9	63.6	81.0	+2.0	83.8
Muzaffarpore.	Muzaffarpore		29.671	29.742	—	W.N.W.	243.0	96.8	26th Mar.	—	—	96.8	—	—	—	84.0
	Durbhanga		29.513	29.745	—	W.N.W.	389.4	98.2	25th ..	67.0	23rd ..	94.1	61.7	77.0	+1.3	84.2
	Champuram		29.661	29.736	—	W.N.W.	250.0	95.0	23rd ..	60.0	24th ..	95.0	61.7	79.0	+0.1	84.4
	Waran		29.661	29.736	—	W.N.W.	250.0	95.0	23rd ..	60.0	24th ..	95.0	61.7	79.0	+0.1	84.6
Shahabad.	Dehree		29.627	29.702	—	W	180.7	97.0	24th Mar.	67.0	24th ..	95.0	68.0	80.0	+1.4	84.8
	Buxar		29.670	29.768	—	Westerly	237.7	96.3	25th ..	67.0	22nd & 24th Mar.	94.0	68.0	82.7	+1.5	85.0
	Arrah		29.629	29.810	—	W	125.3	98.8	25th. 26th Mar.	68.0	22nd ..	91.2	70.1	80.6	+1.4	85.2
	Gya		29.623	29.767	—	W	130.6	100.3	25th ..	67.8	24th ..	97.0	71.2	83.2	+2.3	85.4
South Bhagulpore.	Bankipore		29.679	29.748	—	W.N.W.	173.0	100.1	25th ..	68.0	23th ..	90.3	72.7	80.5	+2.5	85.6
	Monghyr		29.718	29.775	—	N.W.	111.1	102.2	26th ..	69.0	22nd ..	90.2	71.6	83.7	+2.0	85.8
	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	86.0
	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	86.2
Roosha.	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	86.4
	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	86.6
	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	86.8
	Roosha		27.707	29.868	—	Westerly	228.6	95.0	26th ..	64.3	26nd ..	96.1	68.0	81.5	+1.8	87.0

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-80. The humidity of the atmosphere is expressed as percentage saturated air being presumed by 100. A cloud is denoted by c and an overcast sky by 10. For the purpose of the summary the mean or average of the rainfall in that district determined from the returns sent in by the district stations for the period in question during the same years is given in inches and tenths of an inch. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 28th of March 1890.

DISTRICT OBSERVATIONS.														
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	(OF WEEK.)		RAINFALL.								Representative station.	DISTRICT.
			Mean for district.	Normal mean.	Since 1st of month.			Since 18th May 1889.			Average number of rainy days.	Normal number of rainy days.		
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.				
85	0.0	NH	0.10	0.17	2.63	0.07	+1.00	77.89	57.13	+20.76	0.3	0.6	Poorva Gopalpore	Poorva
78	1.0	NH	0.04	0.10	1.00	1.00	+0.00	08.30	53.70	+45.40	0.2	0.6	Cuttack	Cuttack
77	0	0.20	0.23	0.32	2.40	1.15	+1.25	02.03	53.55	+51.52	0.8	0.6	Balasore	Balasore
85	3.1	0.03	0.01	0.19	1.83	0.00	+0.43	00.07	04.00	+0.93	0.7	0.5	Rangor Island	South-West Midnapore
86	0	NH	NH	0.21	1.08	1.43	+0.30	47.45	53.00	+5.55	0.0	0.5	Midnapore	Midnapore
85	0.0	NH	NH	0.10	0.50	1.19	+0.60	51.00	51.10	+0.10	0.0	0.6	Calcutta	24-Pergunnahs...
83	0	NH	NH	0.33	0.00	1.16	+0.60	44.40	48.00	+3.60	0.0	0.7	Burdwan	Howrah
41	0.4	NH	NH	0.23	0.00	0.00	+0.00	50.00	53.00	+3.00	0.0	0.6	Bankura	Bankura
47	0	NH	NH	0.15	0.00	0.00	+0.00	53.15	53.15	+0.00	0.0	0.6	Ranagunge	Barbhoon
61	0.7	NH	NH	0.29	0.22	0.70	+0.48	01.40	02.13	+0.73	0.0	0.7	Herhampore	West Burdwan
63	0.7	NH	NH	0.44	0.41	1.44	+1.03	02.02	01.02	+0.00	0.0	0.9	Krishnagur	Mooredabad
80	4.7	NH	NH	0.55	0.21	1.82	+1.61	54.00	50.15	+3.85	0.0	1.0	Jessore	Nuddea
80	4.7	NH	NH	0.43	2.35	1.70	+0.79	102.00	110.27	+8.27	0.0	1.0	Chittagong	Jessore
80	4.7	NH	NH	0.73	4.00	2.44	+1.55	00.00	01.00	+1.00	0.0	1.1	Demagiri	Khosla
80	4.7	NH	NH	0.42	0.80	1.72	+1.30	70.00	70.81	+0.81	0.0	1.0	Barrisal	Chittagong Hill Tracts
82	0.7	1.10	0.00	0.77	2.00	3.10	+0.70	03.00	11.33	+8.33	0.0	1.0	Noakhully	Hackerpunge
80	1.8	0.03	NH	0.01	1.29	2.30	+0.99	03.01	50.20	+46.19	0.0	1.0	Farrakpore	Noakhully
80	4.0	0.03	0.10	0.03	1.75	2.05	+0.30	77.04	03.45	+73.59	1.0	1.2	Dacca	Farrakpore
82	4.7	NH	NH	1.04	1.03	2.00	+0.97	51.44	73.08	+21.64	0.0	1.2	Commisariat	Dacca
81	6.1	0.05	0.15	0.70	2.10	1.10	+0.00	01.00	70.15	+69.15	0.0	1.1	Mymensingh	Tipperah
80	3.1	0.10	0.00	0.01	0.77	1.00	+0.23	00.00	00.00	+0.00	0.0	1.0	Bogra	Mymensingh
80	2.0	NH	NH	0.41	2.01	1.33	+0.64	57.35	55.73	+1.62	0.0	0.9	Serajpore	Bogra
81	1.1	NH	NH	0.47	0.00	0.01	+0.01	54.43	55.49	+1.06	0.0	0.8	Rampore	Serajpore
82	0	NH	NH	0.10	0.11	0.40	+0.33	39.00	55.37	+16.37	0.0	0.4	Maldah	Rampore
80	0.0	NH	NH	0.20	0.04	0.30	+0.06	37.00	56.44	+19.44	0.0	0.6	Dinapore	Maldah
85	0	NH	NH	0.80	0.02	1.80	+1.78	55.89	70.50	+14.61	0.0	0.9	Rangpur	Dinapore
43	0.3	NH	NH	0.84	0.00	1.04	+1.04	117.79	110.20	+7.59	0.0	1.0	Jalpaiguri	Rangpur
57	0	0.04	0.03	0.75	0.07	1.74	+1.67	133.00	123.75	+9.25	0.0	1.0	Darjeeling	Jalpaiguri
45	0.4	NH	NH	0.13	0.05	0.40	+0.35	75.00	50.01	+24.99	0.0	0.4	Furness	Darjeeling Hill Tracts
86	0.7	NH	NH	0.07	0.07	0.42	+0.35	48.00	46.35	+1.65	0.0	0.3	Mozufferpore	Furness
86	0.7	NH	NH	0.03	0.00	0.30	+0.30	52.17	41.42	+10.75	0.0	0.2	Durbhunga	Mozufferpore
87	2.0	NH	NH	0.06	0.13	0.30	+0.21	04.11	07.53	+3.42	0.0	0.2	Mothari	Durbhunga
81	0.0	NH	NH	0.01	0.77	0.20	+0.76	40.30	41.03	+0.73	0.0	0.3	Chupra	Mothari
86	0.0	0.00	NH	0.02	0.40	0.40	+0.00	40.00	40.00	+0.00	0.0	0.2	Deoria	Chupra
80	0.0	0.00	NH	0.04	0.20	0.30	+0.26	37.30	41.37	+4.07	0.0	0.2	Gya	Deoria
80	1.1	NH	NH	0.04	0.13	0.20	+0.16	43.00	42.01	+0.99	0.0	0.2	Bankipore	Gya
81	1.1	NH	NH	0.04	0.00	0.27	+0.27	43.00	43.00	+0.00	0.0	0.2	Bhagulpore	Bankipore
85	0	NH	NH	0.08	0.40	0.50	+0.42	50.00	51.70	+1.70	0.0	0.3	Rooma	Bhagulpore
81	1.0	NH	NH	0.05	0.01	0.75	+0.74	40.04	51.83	+11.79	0.0	0.3	Haripur	Rooma
80	0	0.03	NH	0.07	1.00	0.70	+0.63	40.03	50.01	+9.98	0.0	0.4	Haripur	Haripur
81	0.4	0.04	0.03	0.11	1.00	1.00	+0.00	40.04	51.40	+11.36	1.0	0.5	Chyabassa	Haripur

Notes. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. Under the head District observations of rainfall the normal means are the means of the district for the corresponding week of the year. The normal means are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of March 1890.

Meteorological division.	District.	Station.	RAINFALL.							Total.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1889.	Average rain-fall from 1st of May to date.
			Saturday 2nd March.	Sunday 3rd March.	Monday 4th March.	Tuesday 5th March.	Wednesday 6th March.	Thursday 7th March.	Friday 8th March.	Number of rainy days.	of Rainfall week.				
SOUTH-WEST BENGAL.	Pooree	Pooree	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	1.33	0.47	82.03	82.40
		Khurda	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	0.34	0.74	8.81	87.04
		Bampur	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	0.13	0.03	70.03	80.04
		Paik Point	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	0.23	0.70	77.03	80.04
		Satpara	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	0.71	?	?	?
		Pipili	Nil	Nil	Nil	0.30	Nil	Nil	Nil	Nil	Nil	0.71	?	?	?
	Cuttack	Jagatsinghpore	Nil	0.30	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.70	0.70	70.19	80.41
		Bank	Nil	0.30	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.70	0.70	70.19	80.41
		Cuttack	Nil	0.30	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.70	0.70	70.19	80.41
		Kendrapara	Nil	0.30	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.70	0.70	70.19	80.41
SOUTH-WEST BENGAL.	Balassore	Chandbali	0.10	Nil	Nil	Nil	Nil	Nil	Nil	1	0.10	0.67	1.00	55.71	54.40
		Ruudruak	0.20	Nil	Nil	Nil	Nil	Nil	Nil	1	0.20	0.67	1.00	55.71	54.40
		Balassore	0.20	0.20	Nil	Nil	Nil	Nil	Nil	1	0.20	0.67	1.00	55.71	54.40
		Balassore	0.20	0.20	Nil	Nil	Nil	Nil	Nil	1	0.20	0.67	1.00	55.71	54.40
		Haripodab	0.06	0.77	Nil	Nil	Nil	Nil	Nil	1	0.77	1.41	0.98	54.20	55.40
	Midnapore	Contai	0.01	0.02	Nil	Nil	Nil	Nil	Nil	1	0.01	0.20	0.78	57.58	57.58
		Kangor Island	0.02	0.02	Nil	Nil	Nil	Nil	Nil	1	0.02	0.20	0.78	57.58	57.58
		Tumlook	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	1.07	50.30	53.30
		Midnapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	1.07	50.30	53.30
		Chhatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.29	1.39	44.30	50.77
SOUTH-WEST BENGAL.	24-Pargunnas	Diamond Har- bour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	1.18	64.09	61.37
		Canning Town	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	?	84.19	?
		Alipore Jail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	1.02	5.25	50.74
		Barrackpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	1.34	62.61	52.47
		Dum-Dum	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	1.27	60.80	51.70
		Harriet	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	1.18	24.80	52.44
		Buseerhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	1.03	62.67	57.61
	Howrah	Howrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	1.29	60.04	54.23
		Moheureka (Octoberish.)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.43	0.98	53.47	54.20
	Hooghly	Serampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.26	0.98	54.19	50.29
SOUTH-WEST BENGAL.	Hurdwan	Hurdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	1.04	54.11	50.43
		Hurdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.36	1.04	54.11	50.43
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	0.98	43.98	57.29
		Quina	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	1.24	41.94	40.07
		Hurdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	1.24	41.94	40.07
		Quina	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	1.09	43.03	40.07
		Kanungunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.04	0.61	54.94	50.08
		Kanungunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.43	?	54.23	?
	Bankura	Bankura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.13	1.22	51.00	53.54
		Bishenpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	1.32	50.43	54.07
SOUTH-WEST BENGAL.		Mallara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	0.98	50.03	53.59
		Khatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	0.71	60.81	54.54
		Judaa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	?	46.80	?
		Kotalpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.01	?	51.01	?
		Anda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	?	46.84	?
		Gangajalghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.17	?	50.34	?
		Kaipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.35	?	50.60	?
		Venambhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	?	54.79	?
	Meerboom	Mt. Sonry	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	0.83	59.08	55.70
		Holampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	0.41	47.78	55.00
SOUTH-WEST BENGAL.		Rampore Ham	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	0.60	46.18	57.97
		Boipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.48	?	55.40	?
		Murari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	?	52.67	?
	Neddoe	Ranaghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	1.22	50.68	49.21
		Kuchinghur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	1.10	41.18	46.20
		Choudanga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	1.30	50.13	55.46
		Meherpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	1.74	53.44	59.29
		Koochies	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.60	1.60	50.73	57.18
	Khoolna	Satkhira	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	54.84	57.99
		Baghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.01	53.48	57.31
SOUTH-WEST BENGAL.		Khoolna	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1	0.06	0.90	1.77	57.18	?
		Nakipur	0.45	0.45	0.45	0.45	0.45	0.45	0.45	1	0.45	0.73	?	?	?
		Kampal	0.45	0.45	0.45	0.45	0.45	0.45	0.45	1	0.45	0.73	?	?	?
	Jessore	Narail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	1.07	57.20	50.90
		Jessore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	1.07	57.20	50.90
		Jhondah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	1.07	57.20	50.90
		Magoorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	2.07	57.40	57.20
		Boungong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	1.43	47.04	50.70
	Moorebadad	Kandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.20	0.71	50.54	57.00
		Berhampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	0.60	46.49	53.50
SOUTH-WEST BENGAL.		Lalbagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.05	0.47	47.18	52.34
		Aringunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.05	0.41	47.18	52.34
		Jungipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	0.41	55.34	54.67
		Jalgola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	0.77	50.00	53.50
		Jagunja	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	?	49.48	?
		Akoriganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	?	49.48	?
		Pathabari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Chittagong	Cox's Bazar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.13	1.05	125.71	137.63
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.10	1.07	70.00	87.21
		Kutubdia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	?	111.00	?
SOUTH-WEST BENGAL.		Backony	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	?	65.00	?
	Chittagong Hill Tracts.	Rangamati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.00	0.60	68.00	67.45
		Kusa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.07	2.10	71.17	83.00
	Meerboom	Patnakhally	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	1.07	57.01	50.70
		Pozoripore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	0.28	75.25	70.00
		Hurdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	2.10	73.00	70.00
		Mhoia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	0.07	50.00	50.00

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of March 1890—contd.

Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Sunday, 22nd March.	Monday, 23rd March.	Tuesday, 24th March.	Wednesday, 25th March.	Thursday, 26th March.	Friday, 27th March.	Number of rainy days.	of Rainfall week.					
Dykes.	Nankholly ..	Gourmaddi	NH	NH	1.85	?	65.04		
		Nankholly ..	1.13	1	1.13	3.00	3.00	105.67	111.74	
		Penny	NH	NH	2.40	2.40	81.65	111.17	
		Harikhpore	NH	NH	2.05	?	84.27	?	
	Furzedpore ..	Ramganj ..	0.30	1	0.30	0.30	?	87.25	?	
		Madanpore	NH	NH	0.20	2.20	65.48	89.65	
	Dacca ..	Furzedpore	NH	NH	2.61	2.61	66.24	80.02	
		Gonaido	NH	NH	1.01	1.01	60.06	80.02	
		Munshingunge	1	0.33	2.16	3.67	79.27	71.10	
		Dacca ..	0.04	1	0.04	2.61	2.74	79.04	80.27	
Hill Tipperah.	Tipperah ..	Munshingunge	2	0.07	1.11	2.02	82.16	83.86	
		Munshingunge ..	0.03	NH	NH	1.49	1.49	70.75	84.34	
		Jaydhpore	NH	NH	0.71	?	69.20	?	
		Aratola	NH	NH	2.79	4.03	48.16	66.61	
	Tipperah ..	Comila	NH	NH	0.29	2.80	63.26	80.25	
		Chandpore	NH	NH	1.19	2.03	67.17	78.16	
		Bahadurpore	NH	NH	2.16	4.33	85.24	87.34	
		Kanchandrapore	NH	NH	0.65	?	61.47	?	
	Tipperah ..	Narayanpore ..	0.40	N	NH	0.40	?	80.04	?	
		Gourmaddi	NH	NH	0.06	?	63.10	?	
Kasba ..		.....	.....	.....	.....	.....	.....	NH	NH	2.65	?	72.35	?
Laksham ..		.....	.....	.....	.....	.....	.....	NH	NH	.....	.....	.....	.....
Mymensingh.	Mymensingh ..	Shahmaddi	NH	NH	3.01	2.70	73.61	73.64	
		Atia (Tungab.)	NH	NH	1.30	1.30	64.06	65.00	
		Mymensingh	NH	NH	2.18	2.01	110.11	77.00	
		Jamulpore	NH	NH	1.09	1.09	67.09	69.01	
	Mymensingh ..	Naraina ..	0.65	1	0.65	4.80	2.04	131.66	79.25	
		Subarnakhali	NH	NH	0.17	?	65.20	?	
		Durgapore ..	0.20	1	0.20	1.84	?	122.12	?	
		Sherepore	NH	NH	0.69	?	68.86	?	
	Mymensingh ..	Derangan	NH	NH	0.18	?	67.25	?	
		
Pahna.	Pahna ..	Pahna	NH	NH	0.71	1.67	60.01	56.00	
		Gourganj	NH	NH	0.40	1.13	63.61	65.02	
	Bogra ..	Sherepore	NH	NH	0.63	1.36	62.70	59.73	
		Nankholly	0.10	1	0.10	1.64	1.64	64.07	64.07	
		Kasba	0.08	1	0.08	0.79	0.79	62.13	62.13	
	Rajshahi ..	Panchabati ..	0.08	1	0.08	0.41	0.85	64.39	57.02	
		Banuloh	NH	NH	0.13	0.78	60.54	64.00	
		Natori	NH	NH	0.13	0.84	60.57	60.57	
	Maldah ..	Nangan	NH	NH	0.19	1.18	67.07	57.01	
		Laijore	NH	NH	0.03	?	60.75	?	
Manno ..		.....	.....	.....	.....	.....	.....	NH	NH	.....	.....	45.27	?
Dinapore ..	Madad ..	.....	.....	.....	.....	.....	.....	NH	NH	0.21	0.80	60.80	62.83
	Chandol ..	.....	.....	.....	.....	.....	.....	NH	NH	0.32	0.32	60.80	60.80
	Gopal ..	.....	.....	.....	.....	.....	.....	NH	NH	0.34	?	60.79	?
	Sibganj ..	.....	.....	.....	.....	.....	.....	NH	NH	0.34	?	62.11	?
Dinapore ..	Mohaddipore ..	.....	.....	.....	.....	.....	.....	NH	NH	0.18	0.65	60.80	62.83
	Churamon ..	.....	.....	.....	.....	.....	.....	NH	NH	0.18	0.65	60.80	62.83
	Kasur ..	.....	.....	.....	.....	.....	.....	NH	NH	0.41	0.41	62.67	64.35
	Dinapore ..	.....	.....	.....	.....	.....	.....	NH	NH	0.18	0.65	60.80	62.83
Rangpur ..	Bahadur ..	.....	.....	.....	.....	.....	.....	NH	NH	0.20	0.20	61.27	62.37
	Thakurgaon ..	.....	.....	.....	.....	.....	.....	NH	NH	?	?	87.81	?
	Bahadur ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	.....	.....	.....
	(Gyandha) ..	.....	.....	.....	.....	.....	.....	NH	NH	1.40	1.40	86.30	63.37
Jalpaiguri ..	Rangpur ..	.....	.....	.....	.....	.....	.....	NH	NH	0.06	1.18	75.04	70.64
	Kutia ..	.....	.....	.....	.....	.....	.....	NH	NH	1.02	1.02	61.90	74.27
	Rangpur ..	.....	.....	.....	.....	.....	.....	NH	NH	1.13	1.13	68.49	84.63
	(Niphama) ..	.....	.....	.....	.....	.....	.....	NH	NH	1.4	?	80.30	?
Jalpaiguri ..	Olipore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	.....	.....	.....
	Jalpaiguri ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	1.60	123.45	115.00
	Alipore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	?	110.00	?
	Paliachitta ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	?	125.00	?
Cooch Behar ..	Debiganj ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	?	80.00	?
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	?	130.22	?
	(Jaghatia) ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.63	1.50	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
Darjeeling Hill.	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
Purneah ..	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
North Bhagalpore ..	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
Durbhanga ..	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
Mousherpore ..	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00
	Ilahpore ..	.....	.....	.....	.....	.....	.....	NH	NH	.....	0.13	1.00	100.00

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of March 1890—con

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall since 1st of month.	Total rain-fall since 1st of May 1889.	Average rain-fall from 1st of May 1889.
			Saturday, 22nd March.	Sunday, 23rd March.	Monday, 24th March.	Tuesday, 25th March.	Wednesday, 26th March.	Thursday, 27th March.	Friday, 28th March.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—continued	Chumpran...	Mothari	...	...	...	...	...	...	...	NI	NI	0.19	0.33	72.83	
		Hettish	...	...	...	...	...	...	...	NI	NI	0.19	0.37	82.60	
		Bajpala	...	...	...	...	...	...	...	NI	NI	0.11	?	70.44	
	Gurga	Barkura	...	...	...	...	...	...	...	NI	NI	0.23	?	81.83	
		Chopalunga	...	...	...	...	...	...	...	NI	NI	0.29	0.19	85.73	
		Chapra	...	...	...	...	...	...	...	NI	NI	0.14	0.21	46.43	
	Shahabad	Buzar	...	...	...	...	...	...	...	NI	NI	0.11	0.27	60.85	
		Dahra	...	...	...	...	...	...	...	NI	NI	0.39	0.28	47.74	
		Bhabanah	...	...	...	...	...	...	...	NI	NI	0.30	0.08	41.08	
		Bamunah	...	...	...	...	...	...	...	NI	NI	0.45	0.53	54.01	
		Arrah	...	...	...	...	...	...	...	NI	NI	0.08	0.28	30.81	
		Mohania	...	...	...	...	...	...	...	NI	NI	0.28	?	43.82	
		...	...	...	...	...	...	...	...	NI	NI	?	?	?	
	Gya	Aurangabad	...	...	...	...	...	...	...	NI	NI	0.30	0.34	88.02	
		Gya	...	...	...	...	...	...	...	NI	NI	0.38	0.40	40.20	
		Nowadah	...	...	...	...	...	...	...	NI	NI	0.13	0.29	29.12	
		Jehanabad	...	...	...	...	...	...	...	NI	NI	0.30	?	23.77	
		Aracel	...	...	...	...	...	...	...	NI	NI	0.16	?	21.40	
		Shandnagar	...	...	...	...	...	...	...	NI	NI	?	?	26.40	
		Sherrghati	...	...	...	...	...	...	...	NI	NI	?	?	19.29	
		Kajauli	...	...	...	...	...	...	...	NI	NI	0.02	?	17.94	
		PakriBarman	...	...	...	...	...	...	...	NI	NI	?	?	21.79	
		...	...	...	...	...	...	...	...	NI	NI	?	?	?	
SOUTH BENGAL	Patna	Patna	...	...	...	...	...	...	...	NI	NI	0.07	0.29	61.80	
		Imnapore	...	...	...	...	...	...	...	NI	NI	0.17	0.33	43.83	
		Behar	...	...	...	...	...	...	...	NI	NI	0.10	0.28	61.79	
		Bikram	...	...	...	...	...	...	...	NI	NI	0.20	?	26.03	
		Hilsa	...	...	...	...	...	...	...	NI	NI	0.20	?	26.04	
	Monghyr	Berocera	...	...	...	...	...	...	...	NI	NI	0.08	0.19	47.78	
		Monghyr	...	...	...	...	...	...	...	NI	NI	?	0.28	61.77	
		Jamui	...	...	...	...	...	...	...	NI	NI	0.26	0.26	39.59	
		Gopri	...	...	...	...	...	...	...	NI	NI	?	?	39.10	
		Shikpara	...	...	...	...	...	...	...	NI	NI	?	?	43.32	
	South Bhagal-pore	Wazirpur	...	...	...	...	...	...	...	NI	NI	?	0.24	45.08	
		Barka	...	...	...	...	...	...	...	NI	NI	0.14	0.20	28.44	
		Kolgaon	...	...	...	...	...	...	...	NI	NI	?	?	46.77	
	Sonthal Por-gunnah	Bangson	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Bajmohal	...	...	...	...	...	...	...	NI	NI	0.07	0.20	59.97	
		Godda	...	...	...	...	...	...	...	NI	NI	0.70	0.34	40.74	
		Pakour	...	...	...	...	...	...	...	NI	NI	0.24	0.31	73.43	
		Nya Duma	...	...	...	...	...	...	...	NI	NI	0.33	0.60	67.10	
		Deonar	...	...	...	...	...	...	...	NI	NI	0.48	0.53	40.82	
		Jamtara	...	...	...	...	...	...	...	NI	NI	0.88	0.06	66.40	
	CHITTA NAG-PUR.	Mohagama	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Nanhai	...	...	...	...	...	...	...	NI	NI	1.00	?	66.67	
		Pachamba	...	...	...	...	...	...	...	NI	NI	0.86	0.64	29.31	
		(Girid)	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Hazaribagh	...	...	...	...	...	...	...	NI	NI	0.41	0.67	49.31	
		Bontagarah	...	...	...	...	...	...	...	NI	NI	1.14	1.14	26.98	
		Mahudi Hills	...	...	...	...	...	...	...	NI	NI	0.76	0.76	?	
		Jhoomra Hills	...	...	...	...	...	...	...	NI	NI	0.60	0.78	43.40	
		Barki	...	...	...	...	...	...	...	NI	NI	0.67	?	22.08	
		Chakra	...	...	...	...	...	...	...	NI	NI	1.04	?	67.06	
SOUTH BENGAL	Lohardugga	Karagaha	...	...	...	...	...	...	...	NI	NI	0.70	?	60.06	
		Hamghar	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Lohardugga	...	...	...	...	...	...	...	NI	NI	1.40	0.64	46.73	
		Banohi	...	...	...	...	...	...	...	NI	NI	2.61	1.04	34.23	
		Polamow	...	...	...	...	...	...	...	NI	NI	0.96	0.60	23.12	
	Singbham	Sili	...	...	...	...	...	...	...	NI	NI	0.60	?	31.20	
		Bolnisi	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Komnabed	...	...	...	...	...	...	...	NI	NI	0.30	?	41.70	
		Gorwah	...	...	...	...	...	...	...	NI	NI	0.06	?	23.43	
		...	...	...	...	...	...	...	...	NI	NI	?	?	?	
SOUTH BENGAL	Mandbham	Chyabham	...	...	...	...	...	...	...	1	0.08	1.00	1.00	49.64	
		Chakradhar-pore	...	...	...	...	...	...	...	NI	NI	?	?	?	
		Chattelle	...	...	...	...	...	...	...	NI	NI	2.18	?	60.83	
		Saharegore	...	...	...	...	...	...	...	NI	NI	2.07	?	67.97	
		...	...	...	...	...	...	...	...	NI	NI	?	?	?	
	...	Parula	...	...	...	...	...	...	...	1	0.01	0.97	1.03	44.00	
		Gobindpore	...	...	...	...	...	...	...	NI	NI	0.46	0.47	24.06	
		Nagbunath-pore	...	...	...	...	...	...	...	NI	NI	0.41	?	66.23	
		Barraclough	...	...	...	...	...	...	...	NI	NI	1.00	?	46.83	
		Jhalde	...	...	...	...	...	...	...	NI	NI	0.30	?	21.40	
		Das	...	...	...	...	...	...	...	NI	NI	0.86	?	29.63	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding space in the total rainfall columns are left blank.

CALCUTTA, the 1st April 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH
OF MARCH 1890.

THE meteorology of the present week has been chiefly noteworthy for the very dry weather which has prevailed over the whole province, and consequently the high and steadily increasing temperature. The low-pressure area, which has been over Bengal for some time, has still continued, there being a uniform large defect, not so pronounced as in the previous week, but at a large majority of stations averaging a tenth of an inch, while at some it was considerably more, and only in the western parts sensibly under a tenth of an inch.

On Saturday, the 22nd, the first day of the week, pressure fell rapidly in North Bengal and slowly elsewhere, the lowest pressure being near Dinagepur. Wind directions were generally from south to west, but velocity was nowhere above the average. Very high temperature prevailed over a large area in the centre of the province, including a large part of South-West and East Bengal, the eastern half of Behar, and as far north as Purneah. The largest amounts in excess of the normal were over 6° at Bhagulpur, Dinagepur, and Maldah, but all round the boundary there was either normal temperature or very slight excess. There had been a rapid rise during the previous twenty-four hours in North Bengal, and a rapid fall in the west of Behar. Pressure fell on the 23rd and rose on the 24th by about equal amounts, so that by the end of the latter day the distribution was similar to that of the 22nd. The wind circulation remained unchanged, while temperature changed irregularly, but continued high. With the exception of a very few light showers in Orissa and East Bengal at the beginning of the week, these three days had been rainless. On the 25th pressure again fell with moderate rapidity, but after that a steady rise set in and lasted till the end of the week. Only one or two stations in East Bengal reported light showers on the 26th, but elsewhere no rain fell. Temperature fell slowly on the last two days, but there was still a large excess.

Pressure—As stated above, has been uniformly very low, especially over an area extending from the centre of the province northwards over North Bengal. The largest defects have been in Purneah and Julpigoree, averaging for the week in these districts nearly 0·15 inch. In East Bengal defect has generally been over a tenth of an inch, and in the other districts very little under a tenth except in Chutia Nagpur, where it has been about seven-hundredths of an inch.

Temperature.—As shown in the table below, has been largely in excess during both day and night. At Cuttack, Burdwan, and Darjeeling maximum temperature has been from 3° to 4½° above the normal, and at all the representative stations given in the table the minimum temperature has been from 1° to 4° above. The only station where there has been defect during the day is Gya, but there the relatively highest night temperatures have been reported.

Excess in the means for the large divisions ranges from 1.2° to 3.6°, South-West, East and North Bengal and South Behar all being over 3°, and the others under 2°.

The actual temperatures during the week, the range from day to night, and their variation from the normals, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 28th March 1890.

[illegible]

Rainfall—Has been very scanty, four of the divisions, viz., South-West Bengal, Behar and Chutia Nagpur being entirely rainless, while in Orissa only the fall has exceeded a tenth of an inch. The few showers reported fell during the first two days of the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 28th of March 1890:—

March 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE										RAINFALL.							
	Highest observed during week.	Lowest observed during week.	Averages for week.					Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average number in week.	Normal average number in week.		Variation.	Average.	Normal average.	Average.	Normal average.					
Orissa	106.4	71.5	82.0	77.0	84.5	+1.0	0.13	0.23	-0.10	0.5	0.7	-0.3	2.29	0.97	64.44	65.34		
South-West Bengal ...	107.6	67.2	89.1	74.2	86.8	+3.7	Nil	0.30	-0.20	0.0	0.0	-0.0	0.27	1.10	58.38	54.19		
East Bengal	95.1	67.8	80.1	74.9	82.3	+5.1	0.09	0.78	-0.64	0.3	1.3	-1.0	1.70	2.43	78.80	77.74		
North Bengal	101.0	64.4	86.9	67.2	82.0	+3.8	0.01	0.48	-0.48	0.1	1.1	-1.0	0.33	1.00	73.68	73.08		
North Bihar	88.3	87.9	85.3	64.1	79.7	+1.2	Nil	0.07	-0.67	0.0	0.3	-0.3	0.10	0.38	58.80	48.57		
South Bihar	102.2	67.3	87.3	71.4	84.4	+2.9	Nil	0.04	-0.04	0.0	0.3	-0.2	0.30	0.37	64.44	44.07		
Chutia Nagpur	92.9	63.4	84.1	68.3	81.3	+1.8	Nil	0.06	-0.08	0.0	0.3	-0.3	1.02	0.80	41.10	31.04		

* Degrees and Chyabases not included.

METEOROLOGICAL OFFICE, BENGAL;
The 1st April 1890.

C. LITTLE,
For Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd to 29th March 1890.

MONTH.		Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.				Rainfall per 24 hour.
				Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.		
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.		
Mar. 1890 ...	23rd ...	29.778	85.9	97.0	22.2	74.8	89.6	70.6	.494	59.6	36	.....	
" " ...	24th ...	7.99	87.0	98.0	22.0	76.0	88.8	77.5	.792	72.2	68	.....	
" " ...	25th ...	7.49	88.2	100.0	21.6	77.4	87.8	80.5	.944	70.4	74	.....	
" " ...	26th ...	7.82	88.0	100.0	24.0	78.0	89.6	72.6	.560	62.2	39	.....	
" " ...	27th ...	8.05	87.2	98.5	22.7	75.8	89.6	74.5	.452	60.5	47	.....	
" " ...	28th ...	8.41	87.8	99.5	21.5	76.0	89.6	77.5	.782	71.8	54	.....	
" " ...	29th ...	8.36	89.7	101.5	23.7	77.8	89.8	79.5	.870	75.0	62	.....	

The mean 10 A.M. pressure of the seven days Inches. 29.709

The mean temperature of the seven days 87.7

The extreme variation of temperature 26.7

The maximum temperature 101.5

The mean 10 A.M. relative humidity of the seven days % 53

The total fall of rain from 23rd to 29th March 1890 Inches. Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 31st March 1890.

MEMORANDUM.

THE deaths registered during the month of January 1890 in 45 districts in Bengal were 124,642, or at the rate of 22·68 per 1,000 among a population of 65,859,534, in opposition to 184,528, or 33·60 per 1,000 in the preceding month, 125,953, or 22·92 per 1,000 in January 1889, and an average of 128,224, or 23·28 per 1,000 in the corresponding month of past five years 1885-89. In comparison with the preceding month (December) there was a large decrease of mortality, amounting to 10·92 per 1,000, but in contrast with the mortality of January 1889 and the average of the corresponding month of the past five years 1885-89 there was a deduction of 24 and 60 per 1,000 respectively.

2. The following districts returned the highest proportions of deaths. For comparison the mortality in the same districts during the corresponding month of 1889 is also shown:—

Districts.	Ratio per mille during—		Districts.	Ratio per mille during—	
	Jan. 1890.	Jan. 1889.		Jan. 1890.	Jan. 1889.
Backerganj	40·44	34·68	Chittagong	31·68	25·68
Nonkhali	37·20	34·56	Darjiling	31·08	23·76
Poori	34·32	27·00	Bogra	30·36	27·48
Jessore	33·86	31·80	Tipperah	30·00	31·20
Cuttack	33·36	22·20	Faridpore	29·88	22·44
Sorampore	32·64	26·52	Howrah	29·28	25·56
Rungpore	32·52	30·36	Balasore	28·32	29·64
Julpaiguri	32·52	30·72	Khulna	27·72	29·64
Rajahshye	32·40	28·20	Hughli	26·40	29·40
Dinajpur	32·28	29·28	Dacca	26·66	25·44

3. The following table compares the mortality of January 1890 from the undermentioned registered death-causes with that of the corresponding month of the previous year, and the average rate of the corresponding months of the past five years 1885-89:—

	Ratio per mille during—		
	January 1890.	January 1889.	Mean of previous five years, 1885-89.
Cholera	1·93	·96	1·56
Small-pox	·10	·10	·08
Fever	16·08	16·80	17·16
Bowel-complaints	·72	·72	·84
Injury	·12	·12	·12
Other causes	8·48	8·84	8·36

It will be seen that the death-rate of January 1890, under the head cholera, is twice as great as that of January 1889, but only a little higher than the average rate of the five years 1885-89. Under the head fever, there was a noticeable reduction in January 1890 as compared with the average rate of the past five years. The mortality under the other heads was pretty much the same as in corresponding past periods.

4. The following table shows the districts in which the death-rates from cholera, fever and the maladies coming under the head "Other causes" were highest:—

Cholera.	Ratio per mille.	Fever.	Ratio per mille.	Other Causes.	Ratio per mille.
Faridpore	8·76	Julpaiguri	30·72	Poori	18·06
Jessore	7·56	Dinajpur	30·48	Backerganj	11·28
Backerganj	6·96	Rungpore	30·36	Cuttack	9·48
Tipperah	6·72	Nonkhali	28·80		
Dacca	5·84	Rajahshye	26·04		
Howrah	4·92	Darjiling	24·12		
24-Pargannas	4·56	Jessore	23·64		
Rajahshye	4·56	Bogra	23·28		
Nonkhali	3·96	Chittagong	23·04		
Khulna	3·60	Backerganj	21·24		
Midnapore	2·88	Sorampore	20·88		
Chittagong	2·88	Pubna	20·88		
Bogra	2·76				
Sorampore	2·64				
Mymensing	2·64				
Pubna	2·16				

5. The mortality of the month, under review, according to Sex, Class and Age, was distributed as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	24·36	Christians	15·96	Under 1 year	168·72
Females	21·00	Hindus	21·12	1 and under 5 years	21·72
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	108	Mahomedans	26·52	5 " 10 "	10·08
		Buddhists	27·72	10 " 15 "	8·76
		Other classes	12·96	15 " 20 "	14·16
				20 " 30 "	14·16
				30 " 40 "	16·68
				40 " 50 "	22·44
				50 " 60 "	33·84
				60 years and upwards	63·48

Detailed information regarding the mortuary statistics of the 45 districts in Bengal dealt with in the above summary will be found in the statement appended.

W. H. GRACE, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

The 31st March 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of January 1890.

DIVISIONS.	DISTRICTS.	POPULATION.		DEATHS PER 1,000 OF POPULATION PER ANNUM.										COMPARISON WITH PREVIOUS PERIOD.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to female deaths in the population.					
		Males.	Females.	DISEASES.										All causes.	Other diseases.	Ratio of deaths per 1,000 of population in the previous month.	Ratio of deaths per 1,000 of population in the corresponding month of the previous year.	Males.	Females.						
				Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population in the previous month.	Ratio of deaths per 1,000 of population in the corresponding month of the previous year.													
NORTH-BENGAL.	Bardhaman	698,500	723,450	81	1,031	76	4	413	963	90	94	14,10	60	74	3,40	19,03	26-30	21-33	1,257	918	31,06	16,64	135	112	1.18
	Barrackpore	607,170	634,110	51	1,009	32	2	411	1,170	74	10	10,44	36	74	2,40	18,14	10-93	19-96	1,000	670	23,74	14,25	112	112	1.00
	Howrah	861,700	894,800	66	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	757	675	23,74	14,25	112	112	1.00
	Medinipur	1,853,100	2,515,600	68	1,170	170	6	917	3,050	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	2,078	1,475	23,74	14,25	112	112	1.00
	Serampore	174,460	177,480	80	613	117	11	137	960	104	94	14,12	8,94	36	5,06	33,61	37-18	30-02	638	412	26,29	24,39	117	117	1.00
Total (North-Bengal)		4,000,031	4,251,976	145	1,616	290	17	316	2,433	103	96	14,10	5,45	112	3,41	25,00	45-00	35-00	1,253	1,140	31,02	26,04	129	129	1.00
CENTRAL-BENGAL.	Howrah	370,170	319,000	61	1,009	32	2	411	1,170	74	10	10,44	36	74	2,40	18,14	10-93	19-96	895	759	23,74	14,25	112	112	1.00
	Calcutta	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Medinipur	1,853,100	2,515,600	68	1,170	170	6	917	3,050	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	2,078	1,475	23,74	14,25	112	112	1.00
	Khanna	800,000	800,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Barisal	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
SOUTH-BENGAL.	Calcutta	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Medinipur	1,853,100	2,515,600	68	1,170	170	6	917	3,050	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	2,078	1,475	23,74	14,25	112	112	1.00
	Khanna	800,000	800,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Barisal	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Calcutta	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
Total (South-Bengal)		4,000,031	4,251,976	145	1,616	290	17	316	2,433	103	96	14,10	5,45	112	3,41	25,00	45-00	35-00	1,253	1,140	31,02	26,04	129	129	1.00
WEST-BENGAL.	Calcutta	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Medinipur	1,853,100	2,515,600	68	1,170	170	6	917	3,050	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	2,078	1,475	23,74	14,25	112	112	1.00
	Khanna	800,000	800,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Barisal	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
	Calcutta	1,000,000	1,000,000	117	1,009	11	4	373	1,493	96	98	14,12	1,06	96	5,43	21,00	30-00	23-00	1,000	670	23,74	14,25	112	112	1.00
Total (West-Bengal)		4,000,031	4,251,976	145	1,616	290	17	316	2,433	103	96	14,10	5,45	112	3,41	25,00	45-00	35-00	1,253	1,140	31,02	26,04	129	129	1.00
TOTAL FOR THE MONTH OF JANUARY 1890.		16,000,000	16,000,000	145	1,616	290	17	316	2,433	103	96	14,10	5,45	112	3,41	25,00	45-00	35-00	1,253	1,140	31,02	26,04	129	129	1.00

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W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 28th March 1890.

MEMORANDUM.

THE birth and death returns of the principal Municipalities in Bengal for the week ending 15th March 1890 present the following results:—

1. Births were registered at the rate of 20·9 per 1,000 of population, and deaths at 21·7. The ratios of the preceding week ending 8th March were 19 and 20·2 per 1,000 respectively. There was thus an improvement in the registration of both births and deaths during the week ending 15th March.

2. These events were recorded in the highest proportions in the following Municipalities:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Comillah	...	50·1	Poori	...	100·7
Rampore Beaulah	...	47·3	Comillah	...	53·9
Serampore	...	35·3	Gya	...	48·5
Narainganj	...	33·1	Serampore	...	37·3
Mouglhyr	...	31·6	Darjiling	...	37·0
Bhagulpore	...	29·8	Hughli and Chinsurah	...	31·2
Arrah	...	29·9	Jessore	...	30·0

3. The mortality from the registered death-causes mentioned below does not exhibit any noticeable differences in comparison with the death-rates from the same causes during the preceding week ending 8th March:—

		Ratio per mille during the weeks ending—	
		15th March 1890.	8th March 1890.
Cholera	...	4·3	3·5
Small-pox	...	·7	·5
Fever	...	8·3	7·4
Bowel-complaints	...	2·4	2·4
Injury	...	·3	·5
Other causes	...	5·4	5·9

4. Of the death-causes above indicated, while small-pox continued to prevail with great severity in the Poori town (mortality 16·8 per 1,000 of population against the same ratio in the preceding week ending 8th March), cholera, fever, bowel-complaints and the maladies coming under the head of "Other causes" proved conspicuously fatal in the following Municipalities:—

<i>Cholera.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Comillah ... 46·2	Darjiling ... 37·0	Poori ... 14·7	Gya ... 18·4
Poori ... 39·8	Rampore Beaulah ... 21·0		Serampore ... 13·7
Gya ... 8·9			Poori ... 12·6
Howrah ... 8·0			
Hughli and Chinsurah ... 6·6			
Midnapore ... 6·3			
Burdwan ... 6·1			

5. The mortality of the week classified under the heads of *Sex*, *Class* and *Age* stood as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	24·8	Christians	29·9	Under 1 year	133·2
Females	18·4	Hindus	23·1	1 and under 5 years	17·9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	134	Mahomedans	18·0	5 " 10 "	11·3
		Other classes	70·8	10 " 15 "	8·1
				15 " 20 "	17·3
				20 " 30 "	10·8
				30 " 40 "	18·1
				40 " 50 "	21·2
				50 " 60 "	26·5
				60 years and upwards	68·8

W. H. GREOG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

The 31st March 1890.

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—										Sex.		Ratio of male deaths to every 100 female deaths, calculated on the proportion of the population to the total mortality.		
		Males.	Females.	Total.	Males.	Females.	Total.	DISEASE.										Males.	Females.			
								DEATHS FROM—														
								Cholera.	Small-pox.	Pever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Pever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of the population.
Bardwan	...	10,483	14,917	25,400	7	13	20	4	1	6	3	...	4	16	61	15	93	13	...	61	244	273
Midnapore	...	14,977	10,833	25,810	10	3	13	6	...	2	2	...	6	17	63	...	77	31	...	63	263	307
Hughli	...	11,855	11,855	23,710	3	9	12	4	1	8	3	...	6	19	66	16	83	49	...	66	313	333
Barrackpore	...	13,350	12,937	26,287	12	6	18	...	...	7	3	...	7	19	39	...	137	89	...	137	334	354
Barrackpore	...	2,045	2,454	4,499	3	1	4	...	...	1	1	...	...	3	64	...	84	94	...	...	263	263
Howrah	...	53,113	37,000	90,113	27	1	28	16	3	9	9	1	6	20	80	11	51	51	...	83	323	323
Howrah	...	7,385	4,979	12,364	1	1	2	...	...	1	1	...	1	5	70	...	33	23	...	83	140	140
Malden	...	13,855	14,114	27,969	6	8	14	...	...	4	...	...	1	5	...	...	76	...	...	19	189	189
Malden	...	4,925	4,925	9,850	...	1	1	...	...	1	...	...	1	3	60	...	60	...	...	49	189	189
Santipur	...	13,795	13,979	27,774	6	6	12	...	...	11	...	...	1	13	...	...	193	...	...	17	310	310
Jessore	...	4,320	2,465	6,785	1	2	3	...	...	1	1	...	...	5	...	...	210	...	...	...	245	245
Raichak	...	10,768	9,025	19,793	8	10	18	...	...	3	...	...	...	8	...	...	270	...	...	...	313	313
Darjiling	...	4,579	2,485	7,064	3	...	3	...	...	3	...	...	...	5	...	...	43	13	...	...	313	313
Dacca	...	42,732	37,379	80,111	11	5	16	...	...	7	3	...	6	17	13	...	43	13	...	...	163	163
Dacca	...	7,095	4,866	11,961	3	5	8	...	...	...	...	...	...	5	...	...	...	...	...	...	370	370
Chittagong	...	13,340	3,790	17,130	4	2	6	...	...	1	3	...	...	4	...	...	33	70	...	...	70	70
Tippur	...	8,115	4,333	12,448	12	1	13	...	...	...	...	...	1	16	44	...	...	...	...	...	83	83
Patna	...	78,792	81,475	160,267	26	23	49	...	...	14	3	...	17	36	3	3	65	10	...	...	117	117
Gya	...	38,390	37,831	76,221	13	13	26	...	...	20	...	...	...	71	89	...	195	...	...	...	117	117
Rubbab	...	20,060	21,405	41,465	9	16	25	...	...	30	...	...	...	10	...	...	73	80	...	...	133	133
Monufepore	...	13,094	19,653	32,747	8	4	12	...	...	0	3	...	...	10	...	...	...	...	...	...	133	133
Durrban	...	23,774	32,323	56,097	12	8	20	...	...	9	3	...	...	11	...	...	...	...	...	...	133	133
Barrackpore	...	25,116	24,954	50,070	8	16	24	...	...	3	6	...	...	10	...	...	...	...	...	...	133	133
Barrackpore	...	27,650	27,813	55,463	13	21	34	...	...	10	1	...	...	17	...	...	...	...	...	...	133	133
Monufepore	...	25,116	24,954	50,070	18	17	35	...	...	9	3	...	...	11	...	...	...	...	...	...	133	133
Purneah	...	8,465	10,160	18,625	1	5	6	...	...	6	...	...	...	6	...	...	...	...	...	...	133	133
Footi	...	13,400	11,537	24,937	6	3	9	7	7	6	133	133
Total	...	250,000	210,000	460,000	427	201	628	100	87	7	111	446	63	7	83	54	133	133

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PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of January 1890.

Circles.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approx. area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										Rainfall, 1899-1900.	Rainfall, 1898-99.	REMARKS.
								Annual lease.						Grand Total.						
								Five years, all crops.	Five years, wheat.	Kharif.	Rabi.	Sugarcane.	Bhadon.	Hot-weather.	Total.	Grand Total.				
OUMA	Cuttack	Talcheria 1st reach	1,352	1,352	11	19,483	9,892	...	10,483	...	384	12	...	...	...	10,479	...	...	...
		Ditto, 2nd "	689	770	11	27,748	27,021	...	27,748	...	282	74	...	...	...	27,994	...	...	...
		Manchong	51,359	...	3,983	80	55,400
		Kondrapara	2,989	...	215	3	3,204
		1st extension	2,251	...	7	2,258
OUMA	Balsore	Pachundi	...	...	...	...	...	...	70,184	...	80	3	...	...	...	70,264	...	...	...
		High Level, Ranees I	2,185	...	60	2,245
		Ditto, ditto II	2,352	...	61	2,413
		Ditto, ditto III	31,369	80	31,449
		Total	...	...	...	154,969	141,249	...	166,451	...	6,403	153	...	...	...	172,654	...	...	...
SOUTH-WESTERN	Midnapore	Total of the corresponding period of last year	...	...	...	...	...	...	135,739	...	2,477	178	...	...	...	138,207	...	...	...
		Malaspora	61,288	...	11	61,299
		Panditkora	4,385	...	440	4,825
		Total reached, Ranees I-II	315	315
		Total	66,563	54,777	...	65,004	...	451	66,455
SOUTH	Shahabad	Total of the corresponding period of last year	...	...	...	...	...	...	60,512	...	1,201	...	...	...	...	61,709	...	...	...
		Western Main	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Buxar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH	Patna and Gaya	Western Main	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Buxar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Patna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH	Grand Total	Total of the corresponding period of last year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Grand Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Grand Total of the corresponding period of last year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Grand Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Grand Total of the corresponding period of last year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

CALCUTTA,
The 1st April 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 29th March 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 29TH MARCH 1890.			WEEK ENDING SATURDAY, THE 30TH MARCH 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	695	1,36,982	2,100	340	96,070	1,573
Jute	45	26,650	445	17	16,125	255
Firewood	98	59,900	890	140	69,325	1,082
Other articles	1,006	2,96,050	4,982	854	2,33,415	3,974
Total	1,843	5,19,682	7,697	1,351	4,14,935	6,284

Nalhati State Railway.

*Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of February 1890, as compared with the same month of the previous year.*

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	645	...	649	...	645	649	...	76
Cotton, raw	7	...	...	...	7	...	...	7
Cotton piece-goods—	...	...	...	...	...	...	...	...
1.—European	60	1	60	1	60	51	...	9
Grains—	...	...	...	...	...	...	...	...
2.—Rice	9	330	33	340	347	677	...	...
3.—Others	64	17	15	3	51	18	...	63
Hides and skins—	...	...	...	...	...	...	...	...
1.—Hides of cattle—	...	...	...	...	...	...	...	...
a.—Dressed	...	5	...	6	5	6	1	...
b.—Undressed	...	1	...	...	1	...	...	1
Jute—	...	...	...	...	...	...	...	...
2.—Gunny bags and cloths	10	2	10	5	12	19	...	...
Lea—	...	...	...	...	...	...	...	...
1.—Stick	1	1	...	...	2	...	...	2
Leather, manufactured	5	...	3	...	5	3	...	...
Liquors—	...	...	...	...	...	...	...	...
1.—Beer	3	...	4	...	2	4	...	...
Metals—	...	...	...	...	...	...	...	...
1.—Iron	5	1	13	1	6	13	...	...
2.—Others	5	2	7	3	10	9	...	1
Oil—	...	...	...	...	...	...	...	...
1.—Castor	...	...	...	...	...	...	...	...
2.—Kerosene	...	...	...	...	...	...	...	...
3.—Others	...	...	...	...	...	...	...	...
Oilseeds—	...	...	...	...	...	...	...	...
1.—Linseed	...	...	...	...	...	...	...	...
2.—Mustard and rape	76	...	...	...	76	...	...	...
3.—Others	...	...	...	...	...	...	...	...
Provisions—	...	...	...	...	...	...	...	...
1.—Ghee	3	...	3	...	3	3	...	...
2.—Dried fruits and nuts	2	...	...	...	2	...	...	...
3.—Others	20	...	...	...	20	...	...	...
Paper and pasteboard	...	...	...	...	...	...	...	...
Railway plant and rolling-stock	154	...	51	...	154	114	...	...
Salt	24	...	64	...	24	40	...	...
Silk, raw—	...	...	...	...	...	...	...	...
2.—Indian	23	25	64	26	53	110	...	...
Silk piece-goods—	...	...	...	...	...	...	...	...
2.—Indian	5	...	...	...	5	...	...	...
Spices—	...	...	...	...	...	...	...	...
2.—Others	1	...	...	...	1	...	...	...
Stones and lime	...	...	17	...	...	...	...	...
Sugar—	...	...	...	...	...	...	...	...
1.—Dressed	24	...	31	...	...	31	...	...
2.—Undressed	23	...	107	...	...	107	...	...
Tobacco	...	...	...	...	...	...	...	...
Timber	...	...	14	...	...	...	...	...
16	...	...	...	...	...	...	...	...
All other articles of merchandise	117	11	233	31	123	264	...	...
Total	1,339	414	1,661	663	1,999	2,143	467	304

INCREASE.						Tons.
Grains—						
(2) Rice	...	...	...	...	...	90
This increase is due to greater demand at Calcutta.						
Salt	...	...	...	...	...	25
Owing to sudden demand, carried by rail.						
Silk, raw—						
(2) Indian	...	...	...	...	...	52
Due to greater import of tussur cocoons from Raniganj district.						
Stone and lime	...	...	...	...	...	10
This is due to greater import of rubble stones this year for protective work.						
Sugar—						
(2) Undrained	...	...	...	...	...	70
Due to greater demand at Azimgaon.						
Tobacco	...	...	...	...	...	19
Due to greater import.						
Timber	...	...	...	...	...	16
Due to there being no traffic last year under this head and imported this year for building purposes.						
DECREASE.						
Coal	...	...	...	...	...	70
Previous stock not being exhausted.						
Grains—						
(4) Others	...	...	...	...	...	63
Due to less export owing to the failure of cereal crops.						
Provisions—						
(3) Others	...	...	...	...	...	32
Due to import of potatoes by boat.						
Railway plant and rolling-stock	...	...	...	...	...	10
Owing to less materials carried during the month.						

R. G. MOOKERJEE,
Manager, Nulhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 22nd March 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	252,878	2,84,574 4 0	29,00,823 0	7,12,208 0 0	20,068 0 0	10,37,102 8 0	51,700	109,603	174,303
Or per mile of railway ...	...	183 5 10	...	468 13 11	...	673 8 7	...	...	...
For previous 11 weeks of half-year ...	2,810,805	32,05,878 0 0	2,77,28,053 0	64,50,100 5 0	2,15,820 11 0	98,77,490 0 0	708,029	1,003,362	1,711,392
Total for 12 weeks ...	3,062,683	35,00,552 4 0	3,06,45,191 0	71,68,500 14 0	2,35,829 4 0	1,09,04,681 8 0	772,434	1,112,965	1,885,399
COMPARISON.									
For corresponding week of previous year ...	215,423	2,57,283 15 4	20,08,445 10	5,68,500 15 4	10,938 13 8	8,61,709 12 8	48,025	91,672	139,697
Or per mile of railway, corresponding week of previous year ...	...	168 4 11	...	368 1 10	...	563 8 0	...	...	...
Total for corresponding date of previous year ...	3,130,391	30,35,454 7 3	3,29,13,165 10	71,78,175 2 8	1,30,118 14 11	1,09,09,948 8 8	788,147	1,145,692	1,933,839

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.			
6,00,710	600	1,075	10,27,102	673	1,025	6,35,30,074	500	1,025	4,56,31,173	505	...	...	1,17,500

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd March 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,316	7,124 9 0	68,402 10	3,826 7 0	24 9 0	11,001 9 0	1,725	669	2,394
Or per mile of railway	250	124 12 9	1,197 0	66 14 4	0 10 3	192 5 4	.....	.....	.....
For previous 11 weeks of half-year	184,682	71,319 7 0	4,81,520 0	28,212 2 0	471 14 0	1,00,035 7 0	19,093	7,169	26,262
Total for 12 weeks	198,998	78,443 6 0	4,90,392 10	32,038 9 0	506 7 0	1,11,036 6 0	20,818	7,838	28,656
COMPARISON.									
Total for corresponding week of previous year	17,634	10,618 1 3	46,730 20	2,052 10 0	68 15 0	15,570 10 3	1,746	645	2,391
Per mile of railway corresponding week of previous year	312	186 2 6	817 0	46 6 3	1 3 3	231 12 0	.....	.....	.....
Total to corresponding date of previous year	179,423	95,266 0 0	3,89,140 30	22,225 1 0	510 10 0	1,15,089 11 0	22,007	6,030	28,037

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
25½	13,571	234	27½	11,302	192	57½	4,95,540	167	57½	4,93,147	160	6,307	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd March 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	22,009	6,279 3 0	18,464 20	611 2 0	12 15 0	6,003 2 0	800	104	904
Or per mile of railway	.....	283 2 4	.....	27 7 6	0 9 3	269 4 1	.....	.....	.....
For previous 11 weeks of half-year	224,326	24,819 12 0	1,60,264 20	5,561 2 0	67 2 0	61,838 2 0	9,400	1,097	10,497
Total for 12 weeks	246,335	31,098 15 0	1,78,730 0	6,012 5 0	100 0 0	68,741 4 0	10,400	1,201	11,601
COMPARISON.									
Total for corresponding week of previous year	22,004	6,247 14 1	11,633 20	410 6 0	5 8 2	6,003 14 4	807	61	868
Per mile of railway corresponding week of previous year	.....	280 12 10	.....	19 12 0	0 4 0	269 12 7	.....	.....	.....
Total to corresponding date of previous year	208,110	20,717 12 11	1,17,990 20	4,127 8 0	73 5 0	73,998 12 5	10,816	776	11,592

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,094	227	22½	6,993	310	22½	2,99,871	248	22½	2,78,614	240	.....	9,467

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., Dacca, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 15th March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-treat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	161,550	63,900 0 0	5,20,380 0	81,350 0 0	17,340 0 0	1,82,650 0 0	23,422	22,714	50,136
Or per mile of railway...	216	112 0 0	697 0	109 0 0	23 0 0	244 0 0			
For previous 10 weeks of half-year...	1,606,150	7,00,840 0 0	56,76,140 0	11,63,700 0 0	1,74,380 0 0	21,21,580 0 0	220,975	209,711	524,626
Total for 11 weeks	1,728,630	8,02,540 0 0	62,00,520 0	12,45,050 0 0	1,91,720 0 0	23,04,210 0 0	244,397	230,425	574,792
COMPARISON.									
Total for corresponding week of previous year...	144,818	76,872 0 0	5,22,602 0	71,723 0 0	15,045 0 0	1,53,740 0 0	21,512	22,780	44,292
Or per mile of railway corresponding period of previous year...	192	115 0 0	706 0	107 0 0	20 0 0	221 0 0			
Total to corresponding date of previous year...	1,630,741	8,75,586 0 0	59,33,640 0	9,78,312 0 0	1,92,612 0 0	20,46,512 0 0	236,140	274,219	510,359

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 16th MARCH 1889.			RECEIPTS FOR WEEK ENDING 15th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 16th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 15th MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
421	Rs. 1,63,740	245	747	Rs. 1,82,650	245	678	Rs. 1,02,85,701	206	729	Rs. 1,10,69,290	204	7,40,350	Rs.

* Audited up to week ending 31st December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 15th March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	27,820	9,850 0 0	69,700 0	8,000 0 0	1,120 0 0	13,120 0 0	3,735	1,037	5,072
Or per mile of railway...	223	79 0 0	558 0	64 0 0	9 0 0	105 0 0			
For previous 10 weeks of half-year...	278,100	1,01,800 0 0	8,95,800 0	28,770 0 0	770 0 0	1,31,530 0 0	35,767	18,785	54,322
Total for 11 weeks	505,920	1,11,947 0 0	9,65,600 0	31,800 0 0	850 0 0	1,44,650 0 0	39,492	20,792	60,194
COMPARISON.									
Total for corresponding week of previous year...	29,742	10,676 0 0	70,723 0	4,045 0 0	47 0 0	14,505 0 0	3,735	1,037	5,072
Or per mile of railway corresponding period of previous year...	238	85 0 0	566 0	33 0 0	.....	118 0 0			
Total to corresponding date of previous year...	318,507	1,11,240 0 0	8,94,903 0	30,125 0 0	4,159 0 0	1,45,559 0 0	40,051	20,760	60,814

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 16th MARCH 1889.			RECEIPTS FOR WEEK ENDING 15th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 16th MARCH 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 15th MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
118	Rs. 14,801	110	125	Rs. 13,120	105	125	Rs. 6,01,687	111	125	Rs. 7,04,101	113	12,414	Rs.

* Audited up to week ending 31st December 1889.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th March 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,280	7,480 0 0	22,240 0	2,500 0 0	150 0 0	19,680 0 0	2,480	700	3,180
Or per mile of railway ...	225	82 0 0	277 0	29 0 0	2 0 0	117 0 0	...	...	...
For previous 10 weeks of half-year ...	100,530	63,410 0 0	2,87,800 0	23,300 0 0	1,080 0 0	64,120 0 0	23,730	7,650	31,380
Total for 11 weeks ...	198,110	71,810 0 0	3,11,710 0	26,020 0 0	2,080 0 0	1,06,210 0 0	26,210	8,350	34,560
COMPARISON.									
Total for corresponding period of previous year ...	15,405	5,173 0 0	7,037 0	850 0 0	200 0 0	6,323 0 0	2,440	630	3,070
Per mile of railway corresponding period of previous year ...	179	60 0 0	82 0	10 0 0	3 0 0	78 0 0	...	...	...
Total to corresponding date of previous year ...	171,120	54,433 0 0	1,30,000 0	12,540 0 0	1,060 0 0	67,937 0 0	20,630	7,100	27,730

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 16TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
225	6,323	73	225	10,000	117	86	2,01,411	80	80	2,30,468	91	23,057	...

* Audited up to week ending 31st December 1889.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 22nd March 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,233	1,092 0 0	10,900 0	1,000 0 0	24 0 0	2,120 0 0	560	204	764
Or per mile of railway ...	110	40 0 0	624 0	37 0 0	1 0 0	78 0 0	...	...	...
For previous 10 weeks of half-year ...	35,030	12,380 0 0	1,49,043 0	9,882 0 0	450 0 0	22,690 0 0	2,301	670	2,971
Total for 11 weeks ...	39,127	13,085 0 0	1,60,943 0	10,882 0 0	470 0 0	24,810 0 0	2,860	6,010	8,870
COMPARISON.									
Total for corresponding week of previous year ...	3,167	1,320 0 0	7,037 0	623 0 0	610 0 0	2,553 0 0	800	327	1,127
Per mile of railway corresponding week of previous year ...	116	40 0 0	290 0	19 0 0	20 0 0	93 0 0	...	...	...
Total to corresponding date of previous year ...	41,451	15,644 0 0	1,60,860 0	9,882 0 0	507 0 0	25,923 0 0	3,062	6,127	9,189

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,600	95	27½	2,125	78	27½	1,01,300	70	27½	1,00,820	70	...	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 22nd March 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	44,213	17,514 0 0	3,17,820 0	22,632 0 0	2,228 0 0	23,100 0 0	5,404	6,539	14,334
Or per mile of railway ...	162	63 0 0	1,163 0	119 0 0	8 0 0	125 0 0	...	...	...
For previous 10 weeks of half-year ...	517,173	2,31,578 0 0	20,21,216 0	2,23,605 0 0	24,220 0 0	2,49,433 0 0	59,791	1,00,501	1,63,995
Total for 11 weeks ...	561,385	2,38,492 0 0	21,40,739 0	2,26,408 0 0	27,548 0 0	2,53,956 0 0	65,292	1,12,330	177,631
COMPARISON.									
Total for corresponding week of previous year ...	38,431	14,200 0 0	97,226 0	8,976 0 0	4,241 0 0	13,217 0 0	6,291	3,400	9,700
Per mile of railway corresponding week of previous year ...	141	50 0 0	267 0	33 0 0	15 0 0	18 0 0	...	...	...
Total to corresponding date of previous year ...	481,910	1,85,264 0 0	15,79,694 0	1,20,230 0 0	20,978 0 0	1,41,208 0 0	66,700	65,361	132,061

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
 a Includes Rs. 1,946 as "Sundry" receipts.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1889.			Total increase 1889-90.	Total decrease 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
273	27,400	101	273	23,100	195	245.82	16,21,675	123	273	21,22,875	159	8,01,200	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for week ending 8th March 1890	...	...	7,359
Corresponding period of 1889	...	...	10,997
Decrease	...	...	3,639
Receipts per mile for week ending 8th March 1890	...	...	Rs. A. P. 114 4 8
Corresponding period of 1889	...	...	216 10 3
Decrease	...	...	71 5 10
Receipts from 1st January to 8th March 1890	...	...	78,642
Corresponding period of 1889	...	...	78,020
Increase	...	...	622

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for week ending 15th March 1890	...	...	9,559
Corresponding period of 1-83	...	...	9,138
Increase	...	...	421
Receipts per mile for week ending 15th March 1890	...	...	Rs. A. P. 187 0 4
Corresponding period of 1889	...	...	179 3 1
Increase	...	...	7 13 3
Receipts from 1st January to 15th March 1890	...	...	88,180
Corresponding period of 1889	...	...	87,169
Increase	...	...	1,011



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 9, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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DONATION OF BABU SRI NATH ROY IN AID OF THE DACCA COLLEGE.

GENERAL DEPARTMENT.

Calcutta, the 7th April 1890.

RESOLUTION.

READ—

A letter from the Director of Public Instruction, No. 1787, dated the 21st March 1890, and its enclosure.

THE Lieutenant-Governor is pleased to accept the offer of Babu Sri Nath Roy, zemindar of Bhagyakul in the district of Dacca, to pay annually the sum of Rs. 120 in aid of poor and deserving students of the Dacca College, and tenders his thanks to the donor for his liberality. The Principal of the Dacca College will be the administrator of the fund.

ORDER.—Ordered, that a copy of this Resolution be forwarded to the Director of Public Instruction for information and for communication to the donor.

Ordered also, that a copy of the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 5th April 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
Burdwan Divn.	1 Burdwan April 5, '90	Nil	Weather—cool in the morning, but warm during day. Ginger and <i>til</i> are being sown, but rain is sadly wanted. Sugarcane pressing is over. Prices of common rice:— <div style="float: right; text-align: right;"> Sra. Burdwan 18 Culna 15 Cutwa 18 Ranigunge 18½ } per rupee. </div>
	2 Bankura .. 5, '90	Nil	Weather—seasonable. Rain wanted everywhere for ploughing of fields for next rice and sugarcane. Standing crops are doing well. Common rice 21 seers per rupee at Sudder and 18½ seers at Binsarpore.
	3 Birbham .. 5, '90	Nil	Weather—hot and dry. No crops to report on. Prices of common rice vary from 16 to 20 seers per rupee.
	4 Midnapur .. 5, '90	Nil	Weather—seasonable. In the Ghatal subdivision rain is wanted for <i>boro</i> rice and <i>til</i> . Indigo doing well. Prices of common rice:— <div style="float: right; text-align: right;"> Sra. Sudder 19 Contai 20 Tamluk 16 Ghatal 18 } per rupee. </div>
	5 Hooghly .. 5, '90	Nil	Weather growing warm. No crops at present. Prices of common rice:— <div style="float: right; text-align: right;"> Sra. Medinipur 12½ Serampore 16 Jehanabad 17 } per rupee. </div>
	Howrah .. 5, '90	Nil	Weather—very hot. <i>Boro</i> paddy suffering from want of rain.
<i>Central Districts.</i>			
Presidency Divn.	6 24 Parghs April 5, '90	Nil	Weather—very hot and dry. <i>Boro</i> paddy suffering from want of rain. Rain wanted for ploughing. Price of common rice 16 seers per rupee.
	7 Medinipur .. 5, '90	Nil	Weather—hot. Harvesting of gram, wheat, and barley still going on. Land is being prepared for the sowing of the early rice crop. Rain is needed.
	8 Khosla .. 5, '90	Nil	Weather—hot. State of <i>boro</i> paddy good. Harvesting of <i>rabi</i> crops nearly completed; outturn expected to be fair. Rain much wanted for ploughing.
	9 Jessore .. 5, '90	Nil	Weather—very hot. Rain badly wanted for cultivation. Prospects of all standing crops gloomy for want of rain.
	10 Moorshedabad .. 5, '90	Nil	Weather—hot. <i>Rabi</i> harvesting almost completed.
Rajshahi Divn.	11 Dinagpur .. 5, '90	Nil	Westerly winds and hot weather. Jute and <i>shadai</i> being sown and sugarcane being transplanted. Rain badly wanted. Prices stationary.
	12 Rajshahi .. 7, '90	Nil	Weather—hot and latterly cloudy in the evening. Harvesting of <i>rabi</i> crops over. Ploughing for <i>aus</i> retarded for want of rain.
	13 Rangpur .. 5, '90	Nil	Weather—very sultry with light wind. Rain badly wanted everywhere. Prices rising in anticipation of a failure of the early rice crop.
	14 Bogra .. 5, '90	Nil	Weather—seasonable. Pulses harvested with an average outturn of 16 annas. Sugarcane is being pressed. <i>Aus</i> rice and jute are being sown. Common rice selling at 16 seers per rupee.
	15 Pabna .. 5, '90	Nil	Weather—hot. <i>Aus</i> , <i>ausa</i> , and jute being sown in some parts of the district. Outturn of mustard and tobacco nearly average. Prices somewhat high.
	16 Darjeeling .. 5, '90	Nil	Weather—hot and threatening. State and prospects of crops favourable, but rain much needed.
	17 Jalpigore .. 5, '90	Nil	Days hot, but night cool. Harvesting of tobacco in progress. Preparation of land for the sowing of the <i>shadai</i> crops is being made in Palesutta. Common rice selling at 16 seers per rupee at head-quarters.

No.	District and date of return.	Rainfall at odder station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Div.	18 Dacca April 5, '90	Nil	Weather—hot and fine. Cutting of sugarcane and harvesting of <i>khassori</i> , <i>masuri</i> , and <i>keora</i> nearly completed. <i>Boro</i> paddy is being harvested. Cultivation going on for early rice and jute. <i>Amo</i> and <i>til</i> being sown. Price of common rice 13 to 15½ seers per rupee.
	19 Farroedpur .. 5, '90	Nil	Weather—hot and occasionally cloudy. Harvesting of <i>rubbi</i> crops nearly at an end with an outturn of 8 annas on the average. Sowing of jute and paddy going on. Sugarcane plantation commenced. Rain much wanted. Prices of common rice:— <div style="text-align: right; margin-right: 20px;">8rs</div> <div style="display: flex; justify-content: flex-end;"> <div style="text-align: right; margin-right: 10px;">Madaripur 15½</div> <div style="text-align: right;">Sudder 14½</div> </div> per rupee.
	20 Backergunge .. 5, '90	Nil	Weather—hot and cloudy, but no rain. Prospects of standing crops fair, but at <i>Bhola til</i> and other crops have been injured by insects. Rice sells at 13 seers per rupee.
	21 Mymensingh .. 5, '90	Nil	Weather—hot and occasionally cloudy. Sowing of jute and <i>amo</i> on low lands has begun, but more rain is needed. <i>Boro</i> rice thriving well. Price of common rice 13 seers 14 chittacks per rupee.
Chittagong Div.	22 Chittagong .. 5, '90	Nil	Weather—seasonable. State of chilly crop fair. Prices stationary.
	23 Noakhally .. 5, '90	Nil	Days warm, but nights rather cool. Preparation of soil for <i>am</i> going on. Common rice 14 to 19 seers per rupee at head-quarters.
	24 Tipperah .. 5, '90	Nil	Weather—hot with high winds. <i>Boro</i> rice thriving. <i>Am</i> and jute being planted. Rain wanted. Chillies being gathered.
	25 Chittagong Hill Tracts. .. 4, '90	Nil	Weather—very hot throughout the week. <i>Jam</i> cutting still going on. Gathering of tobacco and chillies continues. Common rice is being sold at 13 seers 14 chittacks per rupee.
Bihar.	26 Hill Tipperah .. 5, '90	Nil	Weather—hot. <i>Jams</i> continue to be burnt. <i>Boro</i> paddy doing well in the low lands.
	27 Patna .. 5, '90	Nil	Weather—hot and dry. Harvesting of <i>rubbi</i> almost finished. Threshing of corn in progress. <i>Cheena</i> is being sown. Prices of food-grains almost stationary. Opium weighment has commenced.
	28 Gaya .. 5, '90	Nil	Weather—hot. Threshing of <i>rubbi</i> crops going on. Weighment of opium begun. Prices of food-grains stationary.
	29 Shahabad .. 5, '90	Nil	Weather—hot with strong west winds. <i>Rubbi</i> almost harvested. Threshing still going on. Prices stationary.
Patna Div.	30 Darbhanga .. 5, '90	Nil	Weather—clear with east wind. Harvesting of <i>rubbi</i> crops completed. Paddy and <i>am</i> already sown are germinating well, but rain is very much wanted. Indigo is doing well. Prices almost stationary.
	31 Muzaffarpur .. 5, '90	Nil	Weather—hot; westerly winds; cool at night. <i>Rubbi</i> crops are being threshed. <i>Cheena</i> is being sown.
	32 Saran .. 5, '90	Nil	Weather—dry and hot. West winds not so strong. <i>Rubbi</i> harvest completed. <i>Cheena</i> is being irrigated. Opium weighments in full swing.
	33 Champaran .. 5, '90	Nil	Days hot, but mornings cool. West wind prevails. Harvesting of <i>rubbi</i> crops approaching completion. Paddy and <i>cheena</i> are being sown. Opium weighment commences next week. New wheat, barley, and gram selling in the market; prices falling.
Bhagalpur Div.	34 Monghyr .. 5, '90	Nil	Weather—hot and dry; strong westerly winds in day time. Harvesting of <i>rubbi</i> crops finished. Threshing going on with fair outturn. Prices of common rice slightly risen.
	35 Bhagalpur .. 5, '90	Nil	Days getting warm, but nights still cool. Harvesting of the <i>rubbi</i> crops nearly over. Ploughing for the next crop not yet commenced for want of rain.
	36 Patna .. 5, '90	Nil	Slight clouds; mornings and nights still cool; winds have partially ceased. <i>Rubbi</i> crops being harvested. Outturn of grains disappointing. Rain wanted for early <i>khadoi</i> crop and for pasturage.
	37 Malhab .. 5, '90	Nil	Weather—hot and fine. Violent west winds prevail generally. Harvesting of <i>rubbi</i> crops still going on. Outturn of wheat estimated to be 12 annas, but of all other crops about the average. Rain much needed for <i>boro</i> paddy and for preparation of lands for <i>khadoi</i> and <i>am</i> rice. Prices of rice rising.
	38 Antel Perghe .. 5, '90	Nil	Weather—hot. <i>Rubbi</i> harvest completed. Outturn of wheat in Pakour about 10 annas. <i>Mohun</i> has turned out to be a poor crop. Rain wanted for sugarcane. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack ... ..	...	Report not received.
	39 Poores April 4, '90	Nil	Weather—seasonable. Lands are being ploughed for the ensuing <i>sonad</i> crop. <i>Dalua</i> and <i>mung</i> crops are being harvested. Prices of common rice vary from 21 to 24 annas per <i>rapee</i> in the Sudder subdivision and from 19 annas 11 <i>chittacks</i> to 26 annas in the Khoorda subdivision.
	40 Balasore „ 5, '90	Nil	Weather—getting warmer. Cultivation stopped in most parts for want of rain.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hasaribagh April 5, '90	Nil	Weather—seasonable. Days hot. <i>Mohua</i> yielding well. Mango promising. No other crops.
	42 Lohardugga „ 5, '90	Nil	Weather—seasonable. Harvesting of <i>rabbi</i> continues. Prices steady.
	43 Singbhoom „ 5, '90	Nil	Weather—hot and very hazy. <i>Mohua</i> good everywhere with the exception of Baharagura and Uthalsipahar. Mango promises to be a full crop. Winter crops reported to have given a good outturn.
	44 Manbhoom „ 5, '90	Nil	Weather—hot. Wheat, barley, and gram ripening; outturn expected to be 12 <i>annas</i> . <i>Mohua</i> dropping, and the outturn is 14 <i>annas</i> . Mango crop promises well.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 8th April, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

**PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
31st MARCH 1890.**

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Bardwan	14 0	14 0	15 8	26 0	13 8	13 8	14 4	16 14	16 14	16 14		
2	Bankoora	15 0	15 0	15 0	17 0	17 0	20 0	17 8	17 8	17 4	20 0	20 0	19 8	...	...	...
3	Beerbhoom*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Midnapore	13 0	13 0	10 0	...	...	...	15 0	15 8	14 0	18 12	20 0	16 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	14 0	14 0	13 0	...	...	...
	Howrah	...	...	...	...	...	...	11 8	11 8	12 0	16 0	14 8	15 0	...	...	...
Central Districts.																			
	Calcutta	13 6	13 6	13 3	16 3	16 2	19 9	9 0	9 1	9 14	13 15	13 24	14 11	20 4	21 6	17 8			
6	24-Pergunnahs	13 12	14 8	14 0	18 0	20 0	20 0	8 0	8 0	8 0	16 0	16 0	15 8	...	...	...
7	Nudda	15 0	15 0	16 0	20 0	17 12	22 13	12 8	12 13	13 5 1/2	12 10	14 9	15 8	...	...	...
8	Khoolna	...	...	...	...	...	...	12 8	12 8	13 0	14 0	14 0	15 0	...	...	...
9	Jessore	13 0	12 12	13 0	...	...	...	9 0	9 0	13 0	15 0	15 4	16 0	...	...	...
10	Moorshedabad*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Dinapore	19 4	19 4	12 13	...	20 10	10 0	13 8	15 0	15 8	18 0	19 0	19 8	...	...	...
12	Rajahmhye	16 8	16 8	16 8	23 4	23 4	37 8	13 8	13 8	13 8	15 12	15 12	15 0	...	...	...
13	Rangpore	13 5	14 8	14 3	...	...	...	9 6	9 6	10 8	14 8	14 8	16 0	...	...	...
14	Bogra	12 0	12 0	13 8	...	...	...	12 0	12 0	15 0	16 8	16 0	18 12	...	...	...
15	Pubna	17 4	18 8	19 8	...	...	...	6 12	6 12	7 8	15 0	14 4	17 4	...	...	...
16	Darjeeling	10 0	10 0	6 0	9 0	9 0	10 0	6 0	5 0	6 0	12 0	12 0	13 0	...	...	...
17	Julpigoree	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	10 0	17 8	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	15 8	16 0	16 0	20 0	14 0	14 0	14 4	15 0	15 0	16 0	...	...	...
19	Furzedpore	14 0	13 0	20 0	20 0	14 0	20 0	10 0	10 0	10 0	15 0	15 0	15 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 4	13 0	14 0	13 12	15 1	...	...	...
21	Mymensingh	11 4	11 8	10 8	...	...	...	10 0	10 0	13 0	13 0	13 0	17 8	...	...	...

* Return not received.

A In subdivisions retail prices of salt per rupee are:—Gurga 10 seers, Gurga 10 seers 8 chittacks, and Ramnagunge 10½ seers.

B In subdivisions retail prices of salt per rupee are:—Contal 9 seers, Ghatal 10 seers, and Tumbuk 8 seers.

C In subdivisions retail prices of salt per rupee are:—Berampore 10 seers and Jahanabad 10 seers.

D In subdivisions retail prices of salt per rupee are:—Baranet 9 seers, Baranet 9 seers, Diamond Harbour (at Magrahat) 10 seers, Dum-Dum 10 seers, and Barrackpore 9 seers 2 chittacks.

E In subdivisions retail prices of salt per rupee are:—Koushtia 10 seers, Muharpore 10½ seers, Chooadanga 9 seers, and Kanaghat 9 seers 2 chittacks.

F In subdivisions retail prices of salt per rupee are:—Jhonida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.

Head-quarter Station Bazaars of the Districts of Bengal on the 31st March 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.									
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.							
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.							
...	20 0	20 0	19 0	00 0	100 0	07 0	A	10 0	10 0	3 11 0	3 11 0	3 11 0	Burdwan.						
35 0	35 0	21 0	20 8	20 0	18 0	80 0	28 0	28 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Bankoora.						
...	Beerbhoom.						
...	14 0	14 0	14 0	60 0	60 0	60 0	B	10 3	10 3	3 14 0	3 14 0	3 14 0	Midnapore						
...	11 0	11 0	13 0	120 0	120 0	120 0	C	9 0	9 0	3 11 0	3 11 0	3 11 0	Hoochly.						
...	13 4	13 4	14 0	100 0	100 0	100 0	10 0	10 0	10 0	3 18 0	3 18 0	3 10 0	Howrah.						
BENGAL.																					
Western Districts.																					
18 4	18 5	...	16 14	17 7	17 10	100 0	100 0	08 9	10 4	10 2	10 5	3 10 2	3 9 8	3 9 6	Calcutta.						
...	18 0	18 0	19 0	100 0	100 0	10 4	D	10 0	10 4	3 9 0	3 9 0	3 10 0	24-Pergunnahs.						
...	17 12	17 12	20 0	...	...	...	E	9 13	9 13	3 13 0	3 13 0	3 14 0	Nuddea.			
...	16 0	160 0	6 0	9 0	9 0	9 2	4 4 0	4 4 0	4 0 0	Khoolna.						
...	16 0	18 0	22 0	160 0	16 0	160 0	F	9 2	9 0	4 0 0	4 0 0	4 0 0	Jessore.						
...	Moorshedabad.						
...	15 8	19 6	12 0	160 0	16 0	0 6 0	9 8	9 8	9 8	4 0 0	4 0 0	3 15 0	Dinapore.						
...	20 12	20 4	22 12	240 0	24 0	0 6 0	G	9 0	9 0	4 2 8	4 2 8	4 0 0	Rajahmhye.						
...	10 5	9 7	18 0	100 0	100 0	120 0	H	8 14	8 14	4 8 0	4 8 0	4 4 0	Rungpore.						
...	90 0	90 0	96 0	9 0	9 0	8 13	4 4 0	4 4 0	4 4 0	Bogra.						
...	19 0	20 0	21 0	2 0	2 0	0 20 0	I	9 7	10 0	3 15 0	4 0 0	4 0 0	Pabna.						
14 0	16 0	20 0	8 0	8 8	...	12 0	120 0	120 0	J	7 0	8 0	5 0 0	5 0 0	5 0 0	Darjeeling.						
...	13 0	13 0	9 0	1 0	120 0	120 0	J1	9 0	9 0	4 2 0	4 2 0	4 2 0	Julpigoree.						
Eastern Districts.																					
...	14 0	14 0	16 0	16 0	160 0	120 0	K	9 8	9 8	4 2 0	4 2 0	3 14 0	Dacca.						
16 0	12 0	...	11 0	11 0	13 0	120 0	120 0	120 0	8 8	9 0	9 0	4 8 0	4 2 0	4 0 0	Farradpore.						
...	11 4	11 4	13 5	120 0	120 0	120 0	L	10 0	10 2	4 0 0	3 15 0	4 0 0	Backergunge.						
...	10 0	14 0	...	...	...	...	M	9 4	9 8	4 8 0	4 5 0	4 0 0	Mymensingh.		

G In subdivisions retail prices of salt per rupee are:—Natore 9 seers and Nowgong 9 seers 9 chittacks.

H In subdivisions retail prices of salt per rupee are:—Nulphamari 9 seers, Gatabanda 8 seers, and Kurigram 9 seers.

I At 8 tangung retail price of salt Rs. 4 per rupee.

J At Siliguri wholesale price of salt Rs. 4 per rupee.

J1 In the Alipore subdivision (at Kallacutt) retail price of salt 8 seers per rupee.

K In subdivisions retail prices of salt per rupee are:—Manikgungo 8 seers, Moonabongungo 8½ seers, and Naraingungo 10 seers.

L In subdivisions retail prices of salt per rupee are:—Pattadakali 9 seers, Porosopore 9 seers, and Bhoi 8 seers.

M In subdivisions retail prices of salt per rupee are:—Kishorogungo 3 seers, Tangail 10 seers, Jamalpore 8 seers, Shoropore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarters

Number.		DISTRICTS.	QUANTITIES PER RUPEE IN																
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)				
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.		
Eastern Districts—concluded.																			
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	12 0	16 8	16 8	16 14	...	...	...
23	Noakholly ...	...	...	...	...	...	...	14 0	15 0	15 0	15 0	16 0	15 0	...	...	...
24	Tipperah* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Chittagong Hill Tracts. Hill Tipperah...	6 0	6 0	6 0	...	...	...	8 0	9 0	8 0	15 0	15 0	16 0	...	...	...
BEHAR.																			
26	Patna ...	16 12	16 8	16 8	...	...	...	24 0	23 8	24 0	10 8	10 8	11 0	18 2	19 8	15 0	21 0	23 0	25 0
27	Gya ...	14 4	13 8	17 8	...	...	...	24 0	24 4	23 0	21 8	11 0	9 4	17 0	17 0	15 0	...	...	...
28	Shahabad* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	Darbhanga ...	12 0	15 6	16 4	19 12	22 0	...	11 0	11 0	10 4	18 0	18 8	15 0	20 14	...	...	...	...	...
30	Monrerpore ...	14 0	13 0	15 0	20 0	...	22 0	11 0	9 0	10 0	17 0	16 0	13 0	...	...	...	...	...	...
31	Baran ...	15 0	15 8	16 0	22 0	20 20	24 0	8 8	9 4	8 8	16 2	15 14	14 0	...	...	...	...	...	...
32	Chumpran ...	(New) 16 0	15 8	13 0	23 0	20 0	21 0	7 0	8 0	7 0	16 8	17 0	13 0	...	...	...	...	...	...
33	Monghyr ...	17 11	17 13	17 9	23 1	19 11	20 4	17 13	15 12	11 10	18 14	16 12	13 12	...	...	...	...	...	...
34	Bhagulpore ...	17 11	16 6	16 19	22 11	20 8	20 8	11 6	11 6	12 10	15 2	13 14	14 8	...	...	...	...	...	...
35	Purneah ...	14 0	14 0	13 0	...	...	...	18 0	18 0	18 9	19 0	19 0	15 0	...	...	...	...	...	...
36	Maldah ...	20 0	19 0	16 0	...	...	...	10 0	11 0	10 0	17 0	7 0	17 0	...	...	...	...	...	...
37	Sonthal Pargna ...	13 0	18 0	11 8	...	...	...	13 0	13 0	14 0	17 0	16 0	16 8	...	...	...	...	...	...
ORISSA																			
38	Cuttack ...	13 2	13 2	13 2	...	...	...	10 8	10 8	10 8	15 6	19 11	17 1	...	...	...	...	...	...
39	Pooree ...	10 8	11 12	11 12	...	...	...	15 12	15 12	11 12	22 10	23 10	15 12	...	...	...	...	...	...
40	Balasore ...	15 0	15 0	14 0	15 0	15 0	15 0	13 0	13 0	12 0	21 0	21 0	15 0	...	...	...	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hazaribagh ...	13 0	13 0	17 0	13 0	13 0	...	10 0	10 0	8 0	16 8	17 0	15 0	...	...	...	...	...	...
42	Lohardugga ...	15 0	14 0	14 0	24 0	24 0	16 0	14 0	14 0	13 0	16 0	15 0	15 0	...	...	...	...	...	...
43	Singbhoom ...	9 0	9 0	10 0	10 0	10 0	14 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...	...	...	...
44	Manbhoom ...	14 0	14 8	14 0	...	...	30 0	12 0	13 0	15 0	22 0	20 0	22 0	...	...	...	...	...	...

* Return not received.

† Common rice at Jajpore 22 seers 5 chittacks per rupee, and at Kendrapara 23 seers 10 chittacks per rupee.

N At Cox's Bazar retail price of salt 8 seers per rupee.

O At Panny Hill retail price of salt 8 seers per rupee.

P In subdivisions retail prices of salt per rupee are:—Barnatipur 11 seers and Madhubani 10 seers.

Q In subdivisions retail prices of salt per rupee are:—Jajpore 9½ seers and Titamerhi 10 seers.

CALCUTTA,
The 8th April, 1890.

BAJRA OR CENHAR.
(Pennisetum typhoides.)

[illegible]

798a

CHINA, CHINA,
CHINA, KADALAY
OR SUNDAY.
(Coco or Cinnamon.)

Present return.	Next preceding return.	Corresponding return of last year.
Present return.	Next preceding return.	Corresponding return of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
122	100	100		12	0	12	0	11	0
122	100	100		12	0	12	0	12	0
	100	100				100		100	
100	100	100		10		100		100	
100	100	100		12	0	12	0	10	0

22	0	22	0	15	8	24	8	23	8	25	0
15	0	15	0	12	8	20	0	20	0	21	0
...
...	...	...	...	...	...	23	0	20	14	25	0
...
8	0	...	...	...	...	23	0	20	0	24	0
...
16	0	10	0	12	0	22	4	23	8	22	0
...
...	...	...	...	...	...	24	0	21	0	17	0
...
...	...	...	...	13	12	25	12	26	4	26	4
...
...	...	...	...	...	...	25	3	20	3	18	4
...
...	...	...	...	...	...	16	0	16	0	14	0
...
...	...	...	...	...	...	20	0	18	0	34	0
...
...	...	...	...	...	...	17	0	17	0	18	0
...
...	...	...	...	...	...	15	12	15	12	21	0
...
...	...	...	...	...	...	14	7	15	12	15	12
...
...	...	...	...	...	...	14	0	14	0	13	0

000	000	000	18 0	18 0	16 0
			16 0	17 0	12 4
001	001	001			
			10 0	10 0	14 0
000	000	000			
			19 0	18 0	15 0
001	001	001			

7966

БАЛНА ОР СУМВО. (<i>Penicillium typho-</i> <i>ideum</i> .)	МАЛТА ОР РАОЛ. (<i>Monilia Urococcina</i> .)
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Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

[illegible][illegible][illegible]

7948

KANONI OR KARUN, ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHAMA, CHHOLA, KAHALAN OR SUNAGH. (<i>Cleome aristatum</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	19 0	19 0	23 0	...	...	...
...	18 0	17 8	14 8	...	...	...
...
...	18 0	16 0	14 0	...	...	...
...	16 0	16 0	16 0	...	...	...
...	17 8	17 8	19 0	...	...	...

11 0	11 0	20 4	16 12	16 12	17 12
6 0	5 12	12 0	20 0	20 0	21 0
...	...	...	21 5	21 5	24 10
...	...	...	12 0	12 0	10 8
...	...	...	16 0	16 0	16 0
...
...	...	...	15 8	14 12	13 12
...	...	...	21 0	21 12	24 0
...	...	...	13 5	16 0	10 0
...	...	...	12 12	12 0	16 14
...	...	...	19 8	17 4	13 8
...	...	...	11 0	10 0	10 0
...	...	...	13 0	13 0	11 8

...	...	...	13 0	13 0	13 0
...	...	...	16 0	12 0	16 0
...	...	...	13 4	16 0	15 1
...	...	...	13 8	14 0	12 4

794b

SEERS OF 20 TOLAH.

BAJRA OR CUMBU. (<i>Pennisetum typho- idum</i> .)			MARUA OR RAGI. (<i>Holcus Corocana</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...
...
...
...
...

15 0	...	...	30 0	...	...
...
...
...	...	...	26 7	26 7	30 9
...
...	...	...	22 0	22 0	20 0
...	...	...	28 0	28 0	20 0
...	...	...	...	...	30 7
...
...
...
...

...
...
...
...

...	...	...	30 0	30 0	21 0
...	...	...	40 0	40 0	23 0
...
...

796a

OF 40 SEERS.

MARUA OR RAGI. (<i>Holcus Corocana</i> .)			KANONI OR ITALIAN (<i>Setaria</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 0 03	...	...
...
...
...
...
15 0	12 01	...	...
...
...
...
...

798b

Station Bazars of the Districts of Bengal on the 31st March 1890—(concluded).

INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CADJAN PEA. (Cajanus indicus.)			FIRWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	

Eastern Districts—concluded.															DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	110	0 110	0 108	0 9 0	9 0	9 0	4 0 0	4 4 0	4 0 0	Chittagong.
...	8 0	8 0	8 0	...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	Tipperah.
...	320	0 320	0 320	0 8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Hill Tipperah.

BEHAR.															DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
24 0	24 0	22 8	22 0	...	25 0	130	0 130	0 130	0 10 0	10 0	10 0	3 14 0	3 13 9	3 12 8	Patna.
...	...	...	21 0	21 0	21 0	160	0 160	0 200	0 9 2	9 2	9 2	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shahabad.
24 0	24 5	21 6	18 0	20 14	20 9	160	0 160	0 160	0 10 0	11 0	11 6	3 14 0	3 8 0	3 14 5	Durbhanga.
20 0	22 8	20 0	18 0	18 0	22 0	160	0 160	0 160	0 10 0	10 0	10 0	3 12 0	3 12 0	3 12 0	Mosufferpore.
22 0	22 8	20 8	20 8	21 4	22 8	160	0 160	0 180	0 9 8	9 12	10 0	4 1 0	4 0 0	3 14 6	Saran.
25 0	25 0	20 0	17 0	17 8	22 0	160	0 160	0 160	0 10 0	10 0	9 0	3 14 0	4 0 0	4 1 0	Champaran.
21 0	21 0	19 14	23 1	23 1	21 0	147	0 147	0 147	0 9 7	9 7	9 8	4 2 0	4 2 0	4 0 0	Monghyr.
22 11	22 11	17 10	20 3	16 6	15 2	176	12 176	12 176	0 10 1	10 1	10 1	4 0 0	3 15 6	4 0 0	Bhagalpore.
...	...	...	16 0	16 0	16 0	180	0 180	0 200	0 9 0	9 0	9 0	4 7 0	4 7 0	4 5 0	Purneah.
...	...	...	...	...	...	160	0 160	0 120	0 9 8	9 8	9 8	4 0 0	3 14 0	4 2 0	Maldah.
24 0	25 0	18 0	20 0	20 0	22 0	200	0 200	0 200	0 9 0	9 0	9 0	4 0 0	4 0 0	4 3 0	Bonthal Pergba.

ORISSA.															DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	18 6	18 6	18 6	80	0 80	0 80	0 11 0	11 0	11 0	3 12 0	3 12 0	2 12 0	Cuttack.
...	14 7	14 7	11 13	80	0 80	0 80	0 11 13	11 13	11 13	3 6 0	3 6 0	3 6 0	Pooree.
...	160	0 160	0 160	0 10 0	10 0	8 8	3 14 0	3 14 0	4 4 0	Balasore.

CHOTA NAGPORE.															DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
23 0	23 0	16 8	18 0	16 0	18 0	320	0 320	0 320	0 8 0	8 0	8 0	4 4 0	4 4 0	4 5 0	Hazaribagh.
30 0	32 0	16 8	Small. 26 0 Large. 17 0	24 0	20 0	17 0	120	0 120	0 140	0 9 0	9 0	8 12	4 7 0	4 6 0	Lohardugga.
16 0	16 0	...	14 0	14 0	15 0	240	0 240	0 200	0 8 8	8 8	7 0	4 12 0	4 12 0	5 8	Singbhoom.
20 0	32 0	32 0	20 0	20 0	18 0	200	0 200	0 200	0 9 2	9 2	9 0	4 0 0	4 0 0	4 2 0	Manbhoom.

R At Bettiah retail price of salt 10 seers per rupee.
 S In 8 subdivisions retail prices of salt per rupee are:—Bageswar 9½ seers and Jamui 9 seers.
 T At Kishoreganj retail price of salt 8 seers per rupee.
 U In the Khairah subdivision retail price of salt 10½ seers per rupee.
 V At Bhudruk retail price of salt 9 seers per rupee.
 W At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
 Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ..	2 11 10	2 11 10	2 12 7	2 3 7	1 15 8	1 12 9	4 3 6	4 2 8	3 13 0	2 9 9	2 9 6	2 7 6
2	Beraingunge ...	2 7 0	2 4 0	2 4 0	...	...	...	4 10 0	4 3 0	3 8 0	2 14 0	2 10 0	2 4 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	1 8 0	1 8 0	2 13 0	2 13 0	2 12 0	2 10 0	2 10 0	2 8 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	2 6 0	2 12 0	2 12 0	2 4 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 4 0	3 4 0	3 4 0	2 7 7	2 7 7	2 7 6
6	Patna ...	2 5 9	2 8 6	...	1 10 0	1 10 6	1 10 0	3 12 0	3 12 6	3 8 0	3 3 0	1 15 0	2 10 3
		2 12 6	2 15 0	2 5 0									
7	Bahalore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 11 0	1 11 0	1 14 0
8	Poorce ...	...	...	...	...	...	...	...	...	...	1 11 0	1 11 0	2 4 0
9	Cuttack ...	3 0 0	3 0 0	3 0 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	3 0 0	2 6 0

CALCUTTA,
The 8th April, 1890.

the undermentioned *Marts* of Bengal on the 31st March 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arietinum.</i>)			INDIAN-CORN OR MAIZE. (<i>Zea Mays.</i>)			ARHAR OR THUR. CAJAN PEA. (<i>Cajanus indicus.</i>)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 1 11	2 2 3	1 15 2	1 15 2	1 14 11	...	2 1 3	2 1 1	2 0 6	0 5 6	0 5 6	0 5 10	3 10 2	3 9 8	3 9 6	Calcutta.
2 4 0	2 2 0	3 4 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 0	Saraighunge.
0 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
0 0 0	2 12 0	2 0 0	...	...	...	3 2 0	3 0 0	3 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Naraingunge.
1 4 0	3 4 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	4 0 0	4 0 0	4 0 0	Chittagong.
1 2 6	1 10 0	1 9 0	1 10 0	1 10 3	1 11 6	1 12 0	...	1 9 0	0 5 0	0 5 0	0 5 0	3 14 9	3 13 9	3 12 3	Patna.
1 12 0	2 12 0	2 14 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 4 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Pooree.
1 5 0	2 5 0	1 11 0	...	...	...	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	2 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.														
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		
			Highest 8 A.M. barometer reading of month.	Lowest 8 A.M. barometer reading of month.	Mean 8 A.M. for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Monthly maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean 8 A.M. humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.
OISSA.	Pooree	Pooree	30.044	29.754	29.871	29.883	—	80.7	70.1	80.6	77.1	80.1	—	80	—	5.6	—
	Gopalpora	Gopalpora	30.021	29.751	29.854	29.862	—0.01	80.2	70.4	80.6	76.9	81.3	+1.4	81	—	1.1	—
	False Point	False Point	30.043	29.750	29.863	29.883	—0.03	80.0	69.8	80.5	76.8	80.8	+0.6	80	—	0.5	+0.5
	Cuttack	Cuttack	29.983	29.680	29.808	29.821	—0.03	106.4	88.8	96.7	73.9	85.2	+0.1	78	+4	8.8	+1.5
SOUTH-WEST BENGAL.	Balasore	Balasore	29.904	29.600	29.751	29.760	—0.00	106.8	81.6	90.8	70.3	80.8	0	83	—	0.3	—
	South-West and South Balasore	Sanger Island	29.937	29.730	29.860	29.880	—0.00	97.2	70.0	80.9	70.3	81.7	+0.4	83	—	4.2	—
	Midnapore	Midnapore	29.904	29.617	29.753	29.760	—0.00	107.4	83.8	90.1	70.9	82.8	+1.3	80	—	2.2	—
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	30.023	29.733	29.860	29.880	—0.03	100.9	82.8	91.1	71.1	81.1	+0.9	84	+3	3.9	+0.7
SOUTH-WEST BENGAL.	Bardwan	Bardwan	29.935	29.634	29.784	29.790	—0.03	103.3	85.4	91.5	69.6	82.1	+1.8	85	—	3.8	+0.3
	Bankura	Bankura	29.710	29.423	29.560	29.558	—0.05	103.1	81.3	84.8	69.2	81.9	+1.0	84	—	3.4	—
	West Bardwan	Rangunge	29.725	29.412	29.548	29.550	—0.05	103.2	80.8	84.7	68.2	81.5	+0.6	80	—	2.3	—
	Barbhoom	Barbhoom	29.905	29.651	29.784	29.803	—0.02	103.3	84.7	90.1	67.1	80.1	+0.4	74	+5	5.2	+0.8
SOUTH-WEST BENGAL.	Moorsabad	Moorsabad	29.905	29.651	29.784	29.803	—0.02	103.3	84.7	90.1	67.1	80.1	+0.4	74	+5	5.2	+0.8
	Nuddea	Krishnagore	30.006	29.696	29.832	29.853	—0.05	102.7	84.8	91.2	63.9	81.4	+2.4	68	—	3.6	—
	Jessore and Khoulna	Jessore	30.015	29.714	29.848	29.863	—0.07	99.8	61.6	92.0	71.9	82.3	+1.6	67	+5	3.5	+2.7
	Chittagong	Chittagong	29.971	29.725	29.820	29.831	—0.03	89.6	67.3	86.9	70.8	78.6	+1.9	86	+1	5.9	—0.3
SOUTH-WEST BENGAL.	Chittagong Hill Tracts	Dumagri	30.043	29.745	29.877	29.890	—0.04	94.3	63.6	86.3	71.6	80.0	+1.0	81	—	4.4	—
	Bankergunge	Bankergunge	30.030	29.741	29.864	29.880	—0.02	89.0	69.0	86.3	71.9	78.7	+1.3	82	—	0.8	—
	Koakhilly	Koakhilly	30.017	29.730	29.853	29.863	—0.06	87.0	61.5	86.5	69.5	77.4	+0.2	82	—	2.5	—
	Faridpur	Faridpur	30.017	29.730	29.853	29.863	—0.06	87.0	61.5	86.5	69.5	77.4	+0.2	82	—	2.5	—
SOUTH-WEST BENGAL.	Dacca	Dacca	30.013	29.724	29.853	29.873	—0.02	87.0	60.8	86.5	69.4	79.5	+0.4	83	+5	6.8	+3.5
	Tipperah	Comilla	30.009	29.726	29.858	29.865	—0.04	84.3	60.0	87.0	70.2	79.1	+1.3	83	—	4.1	—
	Mymensingh	Mymensingh	29.992	29.689	29.814	29.823	—0.07	80.4	59.7	87.7	66.3	77.0	+2.2	84	—	3.6	—
	Bogra	Bogra	29.985	29.685	29.822	29.830	—0.03	80.9	54.9	87.5	65.0	79.0	+2.1	79	—	3.3	—
SOUTH-WEST BENGAL.	Pubna	Serajgunge	29.982	29.680	29.811	29.823	—0.04	87.8	54.8	86.6	65.0	77.8	+0.9	80	—	4.1	—
	Rajshahye	Rampore Beach	29.980	29.681	29.800	29.800	—0.04	100.6	83.7	92.2	68.4	79.3	+1.9	68	—	1.8	—
	Maldah	Maldah	29.985	29.684	29.813	29.826	—	101.5	85.4	93.0	68.7	77.8	—	67	—	0.9	—
	Dinapore	Dinapore	29.926	29.678	29.753	29.760	—0.03	101.4	80.3	91.6	62.6	77.1	+1.3	67	—	3.4	—
SOUTH-WEST BENGAL.	Rangpore	Rangpore	29.963	29.681	29.785	29.793	—0.03	99.4	45.0	89.9	61.6	78.6	+2.1	64	—	0.3	—
	Jalpigore and Cooch Behar.	Jalpigore	29.774	29.604	29.686	29.686	—0.08	96.1	41.9	87.9	57.1	72.6	—0.4	63	—	1.3	—
	Darjeeling Hill Tracts	Darjeeling	29.937	29.700	29.857	—	—	84.1	38.3	87.0	63.3	69.6	—0.5	66	—	2.2	—0.6
	Purneah and North Bhagulpore.	Purneah	29.913	29.644	29.716	29.746	—0.11	99.8	60.0	86.5	60.5	75.3	—0.3	67	—	1.0	—0.5
SOUTH-WEST BENGAL.	Mooserpore	Mooserpore	—	—	—	—	—	Observations suspended.									
	Durbhanga	Durbhanga	29.973	29.637	29.778	29.786	—0.10	94.3	—	89.7	—	—	—	62	—	1.7	+0.3
	Chumpara	Medinipur	29.937	29.674	29.615	29.636	—0.08	96.3	60.9	85.5	57.9	75.3	—0.3	65	—	2.7	—
	Serna	Chupra	29.900	29.630	29.620	29.640	—0.04	96.5	62.0	86.4	61.8	78.7	—0.7	66	—	1.7	—
SOUTH-WEST BENGAL.	Shahabad	Dhenoo	29.825	29.567	29.636	29.665	—0.07	87.9	58.5	84.2	55.9	75.0	+0.6	60	—	3.1	—
	Arria	Arria	29.876	29.535	29.687	29.698	—0.04	96.3	56.3	81.5	54.8	78.1	+1.0	63	—	2.7	—
	Gya	Gya	29.862	29.560	29.684	29.693	—0.04	101.0	80.1	91.6	66.3	79.5	—0.6	61	+5	3.3	+1.1
	Patna	Bankipore	29.875	29.534	29.675	29.683	—0.06	100.5	87.8	91.3	63.9	78.6	+1.1	48	—10	2.7	+0.8
SOUTH-WEST BENGAL.	South Bhagulpore and Moulvypur.	Bhagulpore	29.874	29.530	29.673	29.680	—0.06	101.3	87.9	92.0	66.5	79.3	+2.1	66	—	2.0	—
	South Bhagulpore	Naya Doocha	29.826	29.526	29.636	29.666	—0.07	104.3	85.8	90.3	66.7	80.1	+0.9	67	—	1.1	—
	Hemribhagh	Hemribhagh	29.808	29.521	29.636	29.663	—0.08	97.8	87.8	87.9	64.8	76.2	—0.3	61	—	2.9	+1.3
	Lehardunga	Rancha	29.807	29.526	29.726	29.734	—0.06	97.0	87.6	87.3	66.8	76.5	—0.4	61	—	1.7	—
SOUTH-WEST BENGAL.	Shardha	Chyabha	29.879	29.591	29.786	29.794	—0.06	105.3	89.6	90.9	68.4	81.7	+0.8	63	—	3.3	—
	Agartala	Agartala	29.783	29.447	29.611	29.640	—0.06	88.6	54.2	77.8	58.0	64.2	—1.3	65	+4	7.4	+1.4
	Agartala	Dubri	29.743	29.477	29.611	29.640	—0.06	88.6	54.2	77.8	58.0	64.2	—1.3	65	+4	7.4	+1.4
	Agartala	Fakir	29.770	29.491	29.635	29.664	—0.06	89.5	54.4	84.3	66.9	74.8	+0.8	67	+8	6.5	+3.9

* Mean for 30 days.

† " " for 30 "

Annual for the month of March 1890

DISTRICT OBSERVATIONS.											Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 15th May 1889.								
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.				
203	0.80	+1.83	6.0	2.2	77.40	57.23	+20.17	101.8	67.2	Porree Gopalpore Paisa Point	Porree	ORISSA.	
1.70	1.12	+0.58	4.4	2.4	68.30	53.99	+14.31	97.8	63.9	Cuttack	Cuttack		
2.40	1.20	+1.20	5.3	2.7	51.53	55.04	-3.51	88.9	62.2	Balasore	Balasore		
1.33	1.20	+0.13	4.7	2.4	59.97	64.01	-4.04	105.6	80.4	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.	
1.03	1.02	-0.01	3.0	2.8	47.42	54.19	-6.77	89.1	77.9	Midnapore	Midnapore		
0.50	1.02	-0.52	2.7	3.2	54.69	54.43	+0.26	94.3	90.0	Calcutta	24-Pergunnahs, Howrah, and Hooghly.		
0.00	1.12	-1.12	2.0	3.9	44.69	49.16	-4.47	86.2	81.0	Burdwan	Burdwan	SOUTH-WEST BENGAL.	
0.80	1.10	-0.30	2.8	2.6	10.73	54.69	-43.96	85.7	87.1	Bankura	Bankura		
0.60	0.61	-0.01	3.5	2.0	53.15	53.23	-0.08	88.5	87.9	Raigunge	West Burdwan and Beerbhoom.		
0.32	0.61	-0.29	2.0	2.3	51.60	51.23	+0.37	88.2	83.3	Barbapore	Mooredabad	SOUTH-WEST BENGAL.	
0.61	1.00	-0.39	2.4	2.0	12.02	51.96	-39.94	90.6	83.2	Krishnagore	Nuddee		
0.21	2.25	-2.04	1.5	3.6	54.90	60.86	-5.96	90.4	90.7	Jessore	Jessore and Khoulia		
1.15	2.07	-0.92	2.0	3.6	102.90	110.26	-7.36	110.3	113.2	Chittagong	Chittagong	SOUTH-WEST BENGAL.	
1.20	2.70	-1.50	2.0	4.1	79.78	83.23	-3.45	107.5	120.8	Dumaguri	Chittagong Hill Tracts		
0.30	2.17	-1.87	1.6	4.0	78.91	80.23	-1.32	103.7	111.9	Barrisal	Backergunge		
1.00	3.78	-2.78	4.5	5.4	93.60	111.94	-18.34	116.6	118.8	Noakhally	Noakhally	SOUTH-WEST BENGAL.	
1.20	2.70	-1.50	2.7	4.4	63.61	57.02	+6.59	87.9	87.5	Furzedpore	Furzedpore		
1.25	3.21	-1.96	0.5	4.0	71.94	61.92	+10.02	119.3	98.6	Dacca	Dacca		
1.75	4.11	-2.36	0.5	5.5	68.64	74.44	-5.80	99.0	104.8	Comillah	Tippurah	SOUTH-WEST BENGAL.	
2.20	2.32	-0.12	3.4	4.2	91.18	70.41	+20.77	110.4	95.0	Mymensingh	Mymensingh		
0.77	2.10	-1.33	2.6	3.6	69.19	59.11	+10.08	101.2	81.9	Bogra	Bogra		
1.01	1.00	+0.01	3.0	3.8	57.38	55.99	+1.39	104.8	86.6	Sarajunga	Pubna	SOUTH-WEST BENGAL.	
0.95	0.97	-0.02	1.3	1.4	64.43	55.89	+8.54	91.6	81.9	Rampore Hooghly	Rajshahy		
0.11	0.60	-0.49	2.0	1.9	56.90	55.41	+1.49	70.0	67.7	Maldah	Maldah	SOUTH-WEST BENGAL.	
0.14	0.70	-0.56	0.6	1.0	67.53	58.53	+9.00	54.1	81.6	Dinapore	Dinapore		
0.70	1.07	-0.37	0.3	2.0	60.99	75.14	-14.15	68.2	80.2	Rangpore	Rangpore		
0.12	1.91	-1.79	0.6	3.4	117.79	113.47	+4.32	108.0	107.0	Jalpigore	Jalpigore and Ooch Behar.	SOUTH-WEST BENGAL.	
0.97	2.12	-1.15	1.3	4.0	133.23	124.19	+9.04	119.4	121.0	Darjeeling	Darjeeling Hill Tracts.		
0.60	0.40	+0.20	0.6	1.5	78.00	80.67	-2.67	70.2	72.9	Purneah	Purneah and North Bhagulpore.	SOUTH-WEST BENGAL.	
0.07	0.48	-0.41	1.0	1.3	46.92	50.41	-3.49	72.4	60.7	Mosufferpore	Mosufferpore		
0.10	0.30	-0.20	1.0	1.1	52.17	60.82	-8.65	66.0	69.3	Durbhunga	Durbhunga	SOUTH-WEST BENGAL.	
0.15	0.27	-0.12	1.0	1.1	64.11	47.84	+16.27	67.9	50.6	Motibari	Chumpan		
0.17	0.31	-0.14	1.3	1.1	40.19	43.80	-3.61	60.7	60.2	Chupra	Sarun	SOUTH-WEST BENGAL.	
0.10	0.41	-0.31	2.4	1.6	10.47	40.96	-30.49	71.0	64.0	Dehree Buzar Arrah	Shahabad		
0.25	0.39	-0.14	3.0	1.3	37.34	42.43	-5.09	67.0	64.7	Gya	Gya	SOUTH-WEST BENGAL.	
0.12	0.29	-0.17	1.0	1.3	40.02	48.03	-8.01	64.4	61.9	Bankipore	Patna		
0.10	0.23	-0.13	0.6	1.2	35.19	44.02	-8.83	70.0	68.9	Bhagulpore	South Bhagulpore and Monghyr.	SOUTH-WEST BENGAL.	
0.14	0.10	+0.04	3.3	1.5	54.26	51.28	+2.98	60.4	79.8	Naya Doomka	Sonthal Pergunnahs		
0.10	0.15	-0.05	2.8	2.1	43.64	51.26	-7.62	54.0	54.6	Hazaribagh	Hazaribagh	SOUTH-WEST BENGAL.	
0.10	0.10	+0.00	0.0	2.0	46.03	50.50	-4.47	67.1	60.9	Ranchoo	Lohardugga		
0.10	0.10	+0.00	0.0	2.7	49.37	48.03	+1.34	100.0	100.0	Chyabasa	Hingbloom	SOUTH-WEST BENGAL.	
0.10	1.71	-1.61	0.0	2.0	40.81	63.63	-22.82	100.0	97.4	Shimoga	Amam		
										Shimoga		SOUTH-WEST BENGAL.	
										Shimoga			

Table of Rainfall recorded at Station

[illegible]

Bengal in March 1890.

11	12	13	14	15	16	17	18	19	20	21	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Highest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st March, 1890.	Average rainfall from 1st January up to 31st March.	Station.	District.	Meteorological division.
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Poorca	Poorca	CHITTAGONG.
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Khurda.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bampur	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	False Point.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Op.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Salpara.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Pipri.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jagatsingpora.	Cuttack.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Banki.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Cuttack.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kandrapara.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jajpur.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Dharmata.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Salpara.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Chandbali.	Balasore.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Boudhruck.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Sorah.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Balasore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	J. Basore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Haripodah.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Central.	Midnapore.	NORTH-WEST BENGAL.
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Saugor Island.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Tumlook.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Malinapore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Gunat.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kukrahalg.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Gorbata.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Diamond Har-	14-Fergunah.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	bour.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Canning Town.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Alipore Jail.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Barrackpore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Dum-Dum.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Harat.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Buseerhat.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Howrah.	Howrah.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Moheraka	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	(Dolocheriah).	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Baranpore.	Hooghly.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Hooghly.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jehanabad.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Gulsa.	Burdwan.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Burdwan.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Cutwa.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kan-chungo.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Mankur.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bankora.	Bankora.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Hishanpore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Malara.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Khutra.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Indra.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kotalpore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Anda.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Ganesajalghat.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Rupore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Sonamukhi.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bh. Soory.	Seorthoom.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Hetanpore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Rampore Har.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bulpur.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Murad.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Raughat.	Nuddea.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kishinchar.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Choudanga.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Meherpore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kooshten.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bathhira.	Khoolna.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bagirhat.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Khoolna.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Nakipur.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Rampal.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Narail.	Jessore.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jessore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jhenidah.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Magorah.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Bongong.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Kandi.	Moorebadabad.	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Barhampore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Lalshu.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Azimgang.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Ju. alipore.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Lalshu.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Jangala.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Alkanga.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Patnabari.	...	...
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Cox's Bazar.	Chittagong.	EAST BENGAL.
...	4	1.8	1.83	0.47	0.67	1.40	1.93	Chittagong.	...	

Table of Rainfall recorded at Stations

[illegible]

1	2	3	4	5	6	7	8	9	10	11	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1880 up to 31st March 1881.	Average rainfall from 1st January up to 31st March.	Station.	District.	Meteorological division.
...	1	3.7	0.23	1.81	0.26	0.71	3.71	Patuakhally	Hackerrunge.	East Bengal -
...	2	3.0	0.17	1.61	0.11	0.69	3.02	Pescepoore.		contd.
...	3	4.1	0.79	2.55	0.87	1.34	4.03	Barisal.		
...	4	4.8	0.87	2.23	0.88	1.70	3.93	Binn.		
...	5	7	1.25	?	1.33	1.35	?	Cherrapunji.		
...	6	?	0.07	?	0.07	0.80	?	Banghal.		
...	7	6.5	3.09	2.95	1.22	3.10	4.26	Noakhally.	Noakhally.	
...	8	6.3	2.49	3.00	1.70	3.27	5.97	Patu.		
...	9	?	2.05	?	2.35	3.31	?	Hazratnagar.		
...	10	?	0.40	?	0.51	0.50	?	Rangpur.		
...	11	4.8	0.20	2.93	0.39	3.03	4.41	Madanpur.	Madanpur.	
...	12	4.0	2.04	2.78	1.35	4.44	4.41	Patuakhally.		
...	13	3.9	1.01	2.33	0.88	2.77	3.90	Gomundo.		
...	14	5.2	3.14	3.65	0.73	3.71	5.04	Munshiganj.	Dacca.	
...	15	4.9	2.01	2.16	0.75	3.07	4.97	Dacca.		
...	16	3.7	1.25	2.85	0.71	3.00	3.90	Narainpur.		
...	17	6.1	1.09	1.90	0.78	2.77	3.25	Munshiganj.		
...	18	?	0.71	?	0.37	2.65	?	Jaydebpore.		
...	19	5.6	3.78	4.90	3.27	4.08	6.81	Azartola.	Hill Tipperah.	
...	20	6.1	0.29	3.07	0.10	1.00	4.00	Chandila.	Tipperah.	
...	21	4.2	1.0	3.30	0.51	3.25	4.77	Chandila.		
...	22	5.8	2.16	4.08	2.15	4.80	6.75	Chandila.		
...	23	?	0.05	?	0.07	1.23	?	Rameshchandra.		
...	24	?	0.70	?	2.50	3.50	?	Narainpur.		
...	25	Nil	Nil	?	Nil	1.74	?	Chandila.		
...	26	?	0.05	?	0.27	0.66	?	Kachha.		
...	27	?	2.05	?	2.30	3.24	?	Lakshmi.		
...	28	5.9	3.01	3.01	1.93	4.26	4.44	Kishoreganj.	Myrinsingh.	
...	29	2.8	1.45	1.44	1.22	3.00	3.02	Atia (Tangail).		

Table of Rainfall recorded at Stations in

Metereological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NORTH BENGAL -continued-	Durbhanga ..	Tajpore	0.07
		Durbhanga	0.13
		Madhubani	0.05
		Bahera	0.15
	Moulberpore ..	Bitamari	0.04
		Moulberpore	0.11
		Hajipore	0.05
		Para	0.20
	Chumpran ..	Mahua	0.05	0.05
		Sikhar	0.20	0.04
		Pupri
		Mothari	0.12
Barua ..	Bettiah	0.11	
	Bagha	0.21	0.02	
	Barkurwa	
	Gopalpur	0.10	0.18	
SOUTH BENGAL	Shahabad ..	Rewan	0.14	
		Chupra	0.11	
		Huzar	0.02	0.34	
		Dohree	0.50	0.00	
	Gya ..	Bhuboach	0.30	
		Raserman	0.78	0.00	
		Arahi	0.07	
		Mohantah	0.23	
	Gya ..	Anrughabad	0.04	0.12	
		Gya	0.01	0.19	
		Nowadah	0.08	
		Jehanabad	0.34	0.01	
	Patna ..	Araul	0.15	
		Daudnagar	
		Sheerghati	
		Rajauli	0.02	
Patna ..	Pakri Bara- wan. ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna .....	...	...	...	...	...	0.04	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dinapore .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Behar .....	...	...	...	...	...	...	0.19	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr ..	Barh .....	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bickram .....	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hilae .....	...	...	...	...	...	0.28	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hegonserai .....	...	...	...	...	...	0.08	...	...	...	...	...	...	...	...	...	...	...	...	...
South Bhagul- pore.	Monghyr .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jamui .....	...	...	...	...	...	0.10	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gogri .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sheikpura .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Southal Per- gunnahs.	Bhagulpore .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Banka .....	...	...	...	...	...	0.14	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kolgaug .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bangaon .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CENTRAL NAG- PUR.	Hazaribagh ..	Rajmahal .....	...	...	...	...	0.07	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gudda .....	...	...	...	...	...	0.13	...	...	...	...	...	...	...	...	...	...	...	...
		Patour .....	...	...	...	...	...	0.04	0.10	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomba .....	...	...	...	...	...	0.24	0.13	...	...	...	...	...	...	...	...	...	...	...
Lohardugga..	Doothur .....	...	...	...	...	...	0.18	0.35	...	...	...	...	...	...	...	...	...	...	...	...
	Jamtara .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mohaparna .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nandikat .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Singbhoom ..	Pachanki .....	...	...	...	...	...	0.11	0.08	...	...	...	...	...	...	...	...	...	...	...	...
	(Gripit). .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hazaribagh .....	...	...	...	...	...	0.34	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bhainsurahi .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Munbhoom ..	Mahundi Hill .....	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jaomrahi Hill .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Barhi .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chatra .....	...	...	...	...	...	0.26	0.35	...	...	...	...	...	...	...	...	...	...	...	...
Kishbhoom ..	Karoydeha .....	...	...	...	...	...	0.25	0.34	...	...	...	...	...	...	...	...	...	...	...	...
	Monghar .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga .....	...	...	...	...	...	0.15	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hanchi .....	...	...	...	...	...	0.30	0.12	0.07	0.54	...	...	...	...	...	...	...	...	...	...
Munbhoom ..	Phaimow .....	...	...	...	...	...	...	0.42	0.52	...	...	...	...	...	...	...	...	...	...	...
	Silli .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dalumat .....	...	...	...	...	...	0.02	0.01	...	...	...	...	...	...	...	...	...	...	...	...
	Hosrinabad .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Singbhoom ..	Garwah .....	...	...	...	...	...	0.40	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chitabasa .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chakradhar- pore .....	...	...	...	...	...	0.15	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chaitia .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Munbhoom ..	Baharapara .....	...	...	...	...	...	1.10	...	...	...	...	...	...	...	...	...	...	...	...	...
	Parula .....	...	...	...	...	...	0.08	...	...	...	...	...	...	...	...	...	...	...	...	...
	Solundpore .....	...	...	...	...	...	0.05	...	...	...	...	...	...	...	...	...	...	...	...	...
	Baghwanth- pore .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Singbhoom ..	Barrabhoom .....	...	...	...	...	...	0.10	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jhilda .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chas .....	...	...	...	...	...	0.07	0.33	...	...	...	...	...	...	...	...	...	...	...	...
		

[illegible]

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF MARCH 1890.**

THE transition from the cold-weather conditions to those of the hot season in Bengal, which usually commences at the close of February, becomes complete in March. The normal features of the meteorology of March are therefore rapidly increasing temperature, gradually decreasing pressure, a general increase in the air motion, winds becoming westerly at the inland stations and south-westerly at the southern stations, while the northerly component in the wind directions almost disappears except in Behar; the air is also generally very dry, skies are clear, and there is an almost complete absence of rain, unless the normal weather conditions are disturbed by the occurrence of the local storms known as nor'-westers. These storms are believed to be brought about by the interaction of the more or less opposing wind systems which obtain to a certain extent over Bengal in this month, for at the western stations, winds are strongly westerly, at the southern stations strong moist southerly winds usually blow, while easterly winds continue to blow down the Assam Valley, and sometimes penetrate as far as Purneah and Durbhanga. From the nature of the formation of these nor'-westers and their local character, the rainfall brought by them, which is sometimes decidedly heavy, is very irregularly distributed. Occasionally also the normal conditions in March are disturbed by the formation of depressions over Northern India, which extend and travel in a south-easterly direction, and give unsettled weather and perhaps rain to Behar, Chutia Nagpur, and North Bengal, but these barometric depressions are usually less numerous and less influential in character than they are in the previous cold-weather months.

By these irregular actions a moderate amount of rain is brought to Bengal during March. The normal rainfall is heaviest in East Bengal, where it averages about 28 inches. In South-West Bengal, North Bengal, and Orissa the fall ranges from about one to one and-a-half inches; in Chutia Nagpur it is rather less than an inch; while in Behar it is rather less than half an inch.

Meteorology of the month.—The main features in the meteorology of March 1890, which has been on the whole rather abnormal in character, have been—

1. The mean pressure over the province of Bengal has been rather largely in defect of the normal, the defect usually ranging from about four to seven-hundredths of an inch. This defect has been fairly equally distributed, but it is actually largest in the northern and north-eastern parts of the province. In Assam also the defect is larger than over Bengal generally, and at Dhubri it amounts to 0.08 inch.

2. The average temperature over Bengal has been in excess of the normal in all districts, and indeed at almost all stations except some close to the hills in North Bengal. The usual excess ranges from about a half to nearly two degrees. In Assam also temperature has been in excess of the normal by about similar amounts.

3. The variations of humidity from the average have not been large, and humidity has been in excess and in defect of the normal at an almost equal number of stations.

4. Cloud proportion has been in excess of the normal by rather considerable amounts at almost all stations in the province at which observations have been taken for a sufficient number of years to yield reliable averages.

5. During March no distinctly-formed or well-marked barometric depressions travelled over Bengal from Northern India, and thus the province was practically free from the second class of disturbances mentioned under the normal meteorology of the month. Generally disturbed conditions, during which rapid and large variations of temperature and pressure occurred, were however prevalent over a considerable part of the province for the first two thirds of the month. These disturbed conditions were not sufficiently intense to produce any very prolonged and general series of the local storms known as nor'-westers in any district, but they only resulted in the formation of rather scattered storms which occurred at irregular intervals. In Behar the few storms which occurred gave rain from about the 4th to the 6th instant; in Chutia Nagpur and South-West Bengal a few showers occurred from the 6th to the 10th instant; in Orissa the showers attending these local storms were more numerous, and they extended up to about the 16th instant; and in East Bengal, as usual, the disturbances extended longer than in other districts, and did not cease until about the 20th; while in North Bengal the number of local storms which occurred was extremely small and, except in a few districts, no rain was received. Speaking generally of the storms of March, it may be said they were more feeble in character than usual.

6. The rainfall generally over the province of Bengal has thus been on the whole rather largely in defect of the normal, and the falls in North Behar, North Bengal, South-West Bengal, and South Behar, vary only from about a quarter to one-half the normal amount; in East Bengal the fall has been about two-thirds the usual; while, on the other hand, in Chutia Nagpur the fall has been slightly in excess of the normal. The only district in which the fall has been in distinct or large excess is Orissa, where the amount of rain received has been about twice as large as usual.

The daily meteorology of March in Bengal and Assam does not call for any particular detailed comment. For the first three weeks the main abnormal features were the very rapid and large changes of barometric pressure and of temperature which occurred. In the latter case changes from temperatures of three to five degrees above the normal to from six to

ten degrees below it occurred within a period of two or three days at different stations in the province, thus showing abnormally large changes even for March. In the case of pressure also the changes were large, in many cases exceeding a tenth of an inch, and in certain cases equalling about a seventh from one day to another; but together with these large daily fluctuations, there was also the steady increase of temperature usual in March, and the establishment of comparatively low pressure. Accompanying these large changes there were also very frequent changes in the wind systems obtaining over Bengal, and to the alternate strengthening of the moist southerly winds and of the dry westerly and north-westerly winds blowing from the interior, which caused the interaction to take place over different districts at different periods, the alteration in the position of formation of the local storms during this period is probably due. During the last ten days of the month, however, these disturbed conditions practically ceased, and a period of very dry hot weather set in, during which the principal feature was the steadily increasing temperature and the establishment of temperature conditions very considerably above the normal. The low pressure which had established itself over Bengal during the earlier part of the month, however, still continued, though it was not so pronounced as it had been, and the winds blowing over the province became those usual during the hot season of the year. The meteorology of the month has therefore been somewhat abnormal, and even up to its close the weather conditions were not entirely normal for the hot season.

Pressure—During the first week of the month was above the normal in all districts, the excess usually ranging from about four to seven-hundredths of an inch. In the second week a decidedly rapid fall had occurred, and pressure had become from eight to twelve-hundredths of an inch in defect of the normal. In the third week the defect still continued, and the largest defects were slightly over a tenth of an inch in South-West Bengal, and the smallest about eight-hundredths of an inch in part of South-West and East Bengal. During the last part of the month pressure continued uniformly low, especially over an area extending from the centre of the province northwards over North Bengal. In the fourth week the largest defects were in Purneah and Julpigoree, where they averaged nearly 0.15 inch, and over the remainder of the province generally the defect averaged nearly a tenth of an inch. For the whole month, therefore, the mean pressure has been in defect of the normal, the usual defect ranging from four to seven hundredths of an inch, and being usually largest in the north and north-east of the province and in Assam.

Temperature—Was during the first week of the month rather less than a degree below the normal for the period, the largest defects being registered in North Behar and Chutia Nagpur. In the second week the defect had increased slightly, and it averaged one degree, the defect again being large in Chutia Nagpur and also in South-West Bengal. In the third week temperature was generally rising rather rapidly, and the average temperature had become in excess of the normal by amounts ranging up to 2.5°; while in the fourth week the mean temperature both during the day and night had become largely in excess of the normal, the excess averaging from about 2° to 4° in most districts. The mean temperature for the whole month has therefore been generally in excess of the normal, the excess ranging from 0.5° in Orissa to 1.3° in North Bengal. In Assam temperature has been slightly below the normal.

The following table will show the principal variations of the day, night and mean temperatures from the normal in each week of the month at nine typical stations in different districts of the province:—

STATIONS.	WEEK ENDING 7TH MARCH 1890.			WEEK ENDING 14TH MARCH 1890.			WEEK ENDING 21ST MARCH 1890.			WEEK ENDING 28TH MARCH 1890.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack ...	-2.8	0	-1.3	-2.8	+0.3	-1.2	-2.7	+1.6	-0.6	+3.3	+2.7	+3.0
Calcutta ...	-2.9	-0.3	-1.2	-3.2	-1.5	-2.4	+0.4	+2.4	+1.5	+4.2	+3.2	+3.7
Dacca ...	-1.4	-1.0	-1.1	-2.2	-1.7	-1.9	+0.2	+0.9	+0.6	+2.0	+3.6	+2.5
Bardwan ...	-1.2	+0.7	-1.3	-3.0	-0.6	-1.0	+0.9	+1.8	+1.3	+2.5	+1.9	+2.7
Patna ...	-2.6	+1.6	-0.3	-1.7	+1.8	-0.2	+1.8	+2.7	+2.5	+1.6	+3.7	+2.6
Gya ...	-4.0	+0.3	-1.2	-6.0	-0.1	-2.6	0	+2.3	+1.1	-1.3	+3.9	+1.2
Purneah ...	-2.3	-2.3	-2.6	-2.3	-1.1	-1.0	-0.9	+2.5	+0.8	+2.6	+1.3	+1.9
Hazratbagh ...	-2.0	-0.2	-1.4	-4.0	-0.3	-2.9	+0.3	+2.3	+1.3	+1.3	+1.0	+1.1
Darjeeling ...	-2.4	-2.7	-3.0	-1.2	-3.0	-2.0	-2.0	-1.3	-1.6	+4.5	+2.1	+3.3

Rainfall.—The heaviest falls of rain during the month have occurred in Orissa, the stations in which have received an average amount of 2·37 inches, which is rather more than twice the usual fall. In East Bengal also an average fall of two inches has been received, but this is very little more than two-thirds the usual fall. Chutia Nagpur has received an average rainfall of one inch, which is slightly in excess of the normal amount. The stations in South-West Bengal have received an average fall of 0·57 inch, which is only about one-third of the usual amount. In all other cases the falls are exceedingly small, and average less than a third of an inch, and they are in all cases largely below the normal, the falls generally equalling from a fourth to about one-half the normal falls.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of March 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	106°0	81°6	88°4	74°3	83°0	+0°8	2·37	1·19	+1·17	5°0	5°4	+0°4	64°28	58°47
South-West Bengal	107°4	84°8	88°1	78°3	81·7	+1°1	0·57	1·45	-0°88	2°4	2°9	-0°4	53°28	54°45
East Bengal	92°6	81°8	87°5	69°8	78·7	+1°3	2·00	2·00	-0°00	2°9	4°3	-0°4	78°00	75°17
North Bengal	101°8	68°0	81°1	63°0	77°0	+1°3	0·33	1·23	-0°90	1°4	2°8	-1°1	73°28	72°28
North Bihar	89°3	49°0	69°5	60°1	74°3	-0°4	0·16	0·40	-0°20	0°3	1°3	-0°9	58°00	60°01
South Bihar	102°3	85°8	91°7	68°0	78°9	+0°3	0·35	0·61	-0°26	2°1	1°4	+0°7	44°44	44°71
Chutia Nagpur	97°3	87°0	87°0	64°5	71°8	-0°3	1·00	0·35	+0·17	6°0	3°3	+1°3	44°10	51°00
Assam	97°6	54°3	63·7	48°3	73°2	-0°1								

* Chybam not included.

METEOROLOGICAL OFFICE, BENGAL,
The 8th April 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
30th March to 5th April 1890.

Month.	Date.	Maximum to sun.	Number of hours of bright sunshine.	Mean pressure barometer at 55° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
March	30th	149.9	9.0	29.782	86.0	98.4	25.6	72.8	75.4	0.743	70.3	64	Calm and variable...	56	Nil	Chiefly clear ☁, ☀.
"	31st	151.3	8.6	.778	87.0	98.4	20.9	77.5	76.8	.768	72.1	65	Variable ...	67	"	Morning cloudy, day and night clear, ☀.
April	1st	150.7	9.5	.771	87.2	98.4	21.7	76.7	76.4	.768	71.2	63	WSW and variable	71	"	Clear.
"	2nd	150.3	9.3	.767	86.7	98.4	21.5	76.9	77.8	.832	78.7	66	WSW, SSW and variable.	88	"	Chiefly clear, ☁.
"	2nd	147.3	7.6	.802	85.5	94.8	19.5	75.3	78.7	.691	75.7	74	SSW and SW ...	118	"	Partially cloudy, ☁.
"	4th	147.1	7.6	.836	85.0	95.2	20.2	75.0	78.0	.666	74.9	73	SSW	98	"	Partially cloudy, ☀, ☁, ☽.
"	5th	145.7	7.0	.826	85.3	93.6	17.6	76.0	77.4	.824	78.3	68	SSW	142	Not measur- able.	Chiefly cloudy, ☀, ☁, ☽.

The mean pressure of the seven days ... 29.796
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.788

The total number of hours of bright sunshine ... 58.6
The maximum possible number of hours of sunshine ... 86.5

The mean temperature of the seven days ... 86.1
The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 84.0
The extreme variation of temperature ... 25.6
The maximum temperature ... 98.4

The highest velocity of the wind in one hour ... 14

The highest pressure of wind on one square foot ... Approximately 2

The mean relative humidity ... 68

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 67

The total fall of rain from 30th March to 5th April 1890 ... Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.30

The total fall from 1st January to 5th April 1890 ... 1.10

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.07

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h. and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

☁ dew; ☽ fog; ☀ overcast; ☀ thunder; ☀ lightning; ☀ drizzling rain; ☀ lunar corona.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 7th April 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	STATION OBSERVATIONS.														
	District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 5 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature.	Variation from normal mean of period.
ORISSA.	Pooree	Pooree	29.850	29.862	—	Calm	147	91.2	30th Mar.	78.1	1st April	80.2	79.0	84.5	—
	Gopalpur	Gopalpur	29.852	29.864	—0.11	Northerly	201.0	86.7	4th April	77.5	31st Mar.	80.0	78.4	82.8	+0.2
	False Point	False Point	29.850	29.872	—0.02	SEW	247.0	91.0	30th Mar.	73.6	1st Apr.	88.7	74.0	83.7	—0.3
	Outback	Outback	29.763	29.870	+0.07	Calm	81.0	104.4	30th Mar.	78.4	30th Mar.	102.4	78.0	90.2	—0.2
SOUTH-WEST BENGAL.	Balasore	Balasore	29.800	29.800	+0.04	S	118.9	100.5	30th Mar.	78.4	30th Mar.	88.0	74.7	85.3	+1.0
	South-West Midnapore	Saugor Island	29.847	29.873	+0.05	SW	815.0	87.3	30th Mar.	77.6	30th Mar.	91.8	79.9	86.9	+2.1
	South St. Pergunnah	Midnapore	29.719	29.871	+0.12	S	74.0	106.4	30th Mar.	78.1	30th Mar.	100.4	72.3	80.3	+2.1
	Midnapore	Midnapore	29.719	29.871	+0.12	S	74.0	106.4	30th Mar.	78.1	30th Mar.	100.4	72.3	80.3	+2.1
SOUTH-WEST BENGAL.	St. Pergunnah	Calcutta	29.844	29.867	+0.11	South-westerly	83	106.9	30th Mar.	78.7	30th Mar.	80.3	75.9	87.1	+3.0
	Howrah	Howrah	29.740	29.860	—0.03	South-westerly	68.7	103.6	1st April	78.4	30th Mar.	101.4	74.6	86.6	+2.3
	Hooghly	Hooghly	29.837	29.830	+0.08	South-westerly	75.0	104.6	30th Mar.	71.4	1st Apr.	105.1	74.0	86.6	+1.9
	Burdwan	Burdwan	29.837	29.830	+0.08	Calm	85.0	105.6	30th Mar.	71.3	1st Apr.	102.6	73.3	87.0	+1.4
SOUTH-WEST BENGAL.	Bankura	Bankura	29.834	29.871	+0.03	Variable	85.0	105.6	30th Mar.	71.3	1st Apr.	102.6	73.3	87.0	+1.4
	Beerbhoom	Ranagunge	29.782	29.860	+0.09	SW	113.3	102.3	30th Mar.	69.7	1st Apr.	100.9	72.6	86.7	+1.9
	West Burdwan	Berhampore	29.782	29.860	+0.09	SW	113.3	102.3	30th Mar.	69.7	1st Apr.	100.9	72.6	86.7	+1.9
	Moorshedabad	Krishnagur	29.807	29.873	+0.13	WSW	128.0	102.6	1st April	78.3	30th Mar.	101.6	76.9	86.3	+4.1
SOUTH-WEST BENGAL.	Muddea	Krishnagur	29.807	29.873	+0.13	WSW	128.0	102.6	1st April	78.3	30th Mar.	101.6	76.9	86.3	+4.1
	Jessore	Jessore	29.827	29.861	+0.05	SW	87.1	101.3	30th Mar.	70.4	30th Mar.	80.0	75.0	80.0	+4.2
	Khoulis	Jessore	29.827	29.861	+0.05	SW	87.1	101.3	30th Mar.	70.4	30th Mar.	80.0	75.0	80.0	+4.2
	Chittagong	Chittagong	29.811	29.808	—0.11	SE & SSE	105.0	90.1	2nd April	78.0	1st Apr.	80.0	75.1	82.1	+0.4
SOUTH-WEST BENGAL.	Chittagong Hill Tracts	Dumagiri	29.808	29.878	+0.11	SW	93.1	94.3	30th Mar.	78.4	30th Mar.	80.3	75.3	84.6	+2.7
	Backergunge	Harrison	29.808	29.878	+0.11	SW	93.1	94.3	30th Mar.	78.4	30th Mar.	80.3	75.3	84.6	+2.7
	Noakhally	Noakhally	29.807	29.861	+0.08	Variable	123.9	90.0	2nd & 3rd April	73.3	2nd Apr.	80.3	75.3	83.0	+1.9
	Farrakka	Farrakka	29.830	29.870	+0.08	SW	123.7	93.8	4th Apr.	78.4	30, 31 Mar.	80.4	76.0	82.7	+2.1
SOUTH-WEST BENGAL.	Dacca	Dacca	29.841	29.844	—0.02	SW	121.3	96.6	1st Apr.	74.7	31st Mar.	87.0	75.3	86.2	+2.0
	Comilla	Comilla	29.854	29.860	+0.12	SW	110.8	94.3	2nd Apr.	74.3	30th Mar.	85.2	75.3	83.3	+2.1
	Mymensingh	Mymensingh	29.802	29.861	+0.17	South-westerly	95.0	90.7	2nd Apr.	70.8	31, 1 April	84.4	73.2	83.5	+4.0
	Bogra	Bogra	29.784	29.818	0	South-westerly	117.5	103.3	3rd, 4th April	69.1	1st Apr.	100.3	70.9	80.4	+1.9
SOUTH-WEST BENGAL.	Pubna	Soragunge	29.797	29.844	—0.04	S & WSW	78.7	98.9	3rd Apr.	69.0	2nd Apr.	87.9	71.6	84.0	+1.6
	Rajshahye	Rampore Beaulah.	29.769	29.840	+0.11	SW	120.8	100.0	1st Apr.	68.9	30th Mar.	101.1	68.0	80.0	+0.9
	Maldah	Maldah	29.787	29.835	+0.07	SW	84.1	123.8	4th Apr.	68.4	2nd April	99.3	63.0	61.3	—0.3
	Dinapore	Dinapore	29.707	29.830	—0.29	SW	123.9	102.1	4th Apr.	60.3	31st Mar.	99.3	63.0	61.3	—0.3
SOUTH-WEST BENGAL.	Rangpore	Rangpore	29.710	29.847	+0.05	E	60.9	90.4	30th Mar.	55.3	31st Mar.	97.9	60.0	60.0	+2.0
	Jalpigore	Jalpigore	29.838	29.861	—0.23	Out of order.	134.6	96.9	4th Apr.	68.9	30th Mar.	98.0	63.6	77.6	+2.1
	Cooh Behar	Jalpigore	29.838	29.861	—0.23	Out of order.	134.6	96.9	4th Apr.	68.9	30th Mar.	98.0	63.6	77.6	+2.1
	Darjeeling Hill Tracts	Darjeeling	29.853	—	—	WSW	120.1	90.0	4th Apr.	67.4	30th Mar.	63.3	62.1	64.8	+1.2
SOUTH-WEST BENGAL.	Purneah	Purneah	29.703	29.831	+0.01	WNW	123.0	101.3	4th Apr.	55.0	3rd April	80.5	61.4	60.1	—1.2
	North Bhawalpur	Purneah	29.703	29.831	+0.01	WNW	123.0	101.3	4th Apr.	55.0	3rd April	80.5	61.4	60.1	—1.2
	Moulvibazar	Moulvibazar	29.848	29.868	—0.04	WSW	101.3	99.9	4th April	—	—	87.9	—	—	—
	Durghanga	Durghanga	29.856	29.884	+0.12	WSW	122.3	99.2	4th Apr.	67.9	31st Mar.	87.9	61.0	70.4	+0.2
SOUTH-WEST BENGAL.	Chandpur	Motibari	29.806	29.837	+0.10	W & WSW	107.2	96.3	31st Mar.	61.9	30, 31 April	96.7	64.3	69.4	+1.4
	Chandpur	Chandpur	29.851	29.890	+0.15	W & WSW	104.3	101.6	1st April	60.0	1st Apr.	100.2	72.6	80.4	+1.4
	Shahabad	Shahabad	29.822	29.868	+0.09	W	154.1	99.0	4th Apr.	65.3	3rd Apr.	97.7	60.7	63.2	—0.7
	Shahabad	Shahabad	29.822	29.868	+0.09	W	154.1	99.0	4th Apr.	65.3	3rd Apr.	97.7	60.7	63.2	—0.7
SOUTH-WEST BENGAL.	Gya	Gya	29.820	29.845	+0.15	W	108.0	103.0	4th April	60.0	2nd Apr.	100.6	78.4	82.3	+0.1
	Patna	Patna	29.841	29.853	+0.04	Calm	99.7	102.8	4th Apr.	67.0	2nd Apr.	100.6	60.0	65.3	+2.0
	South Bhawalpur	Bhawalpur	29.841	29.853	+0.04	Calm	99.7	102.8	4th Apr.	67.0	2nd Apr.	100.6	60.0	65.3	+2.0
	South Bhawalpur	Bhawalpur	29.841	29.853	+0.04	Calm	99.7	102.8	4th Apr.	67.0	2nd Apr.	100.6	60.0	65.3	+2.0
SOUTH-WEST BENGAL.	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
SOUTH-WEST BENGAL.	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7
	South Bhawalpur	Dumka	29.841	29.853	+0.04	Variable	107.6	101.9	4th Apr.	60.6	2nd Apr.	101.1	71.1	64.1	+0.7

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871 to 1890. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The rain is the numerical mean or average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the years 1871 to 1890. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 4th of April 1890.

				DISTRICT OBSERVATIONS.													
No.	Average at 9 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	METEOROLOGICAL DIVISION.	
				Mean for district.	Normal mean.	Since 1st of March.			Since 10th May 1889.								
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
80	7.6	NH	NH	0.80	1.03	0.87	+1.78	77.89	87.23	+9.34	0.0	0.06	Poorer Gopalpur False Point	Poorer	ORISSA.		
81	1.3	NH	NH	0.13	1.80	1.18	+0.74	66.20	83.84	+17.64	0.0	0.5	Cuttack	Cuttack			
82	0.3	NH	NH	0.23	2.44	1.38	+1.08	53.33	83.78	+30.45	0.0	0.5	Balasore	Balasore			
83	0.1	NH	NH	0.30	1.23	1.34	+0.03	59.97	86.03	+26.06	0.0	0.3	Naugor Island	South West Midnapore South 24 Pargannas	SOUTH WEST BENGAL.		
84	1.3	NH	NH	0.27	1.03	1.09	-0.06	47.43	84.26	+36.83	0.0	0.0	Midnapore	Midnapore			
85	1.0	NH	NH	0.48	0.80	1.07	-1.08	84.00	84.84	+0.84	0.0	0.7	Calcutta	44-Permunah Howrah Hooghly			
86	0.3	NH	NH	0.43	0.00	1.59	-0.99	44.40	40.33	-4.07	0.0	0.6	Burdwan	Burdwan	SOUTH WEST BENGAL.		
87	0.3	NH	NH	0.18	0.80	1.11	-0.23	80.81	84.13	+3.32	0.0	0.4	Bankura	Bankura			
88	0.7	NH	NH	0.16	0.60	0.72	-0.03	53.10	83.33	+30.23	0.0	0.4	Raeburnpore	Churghoom West Burdwan			
89	0.1	NH	NH	0.25	0.30	1.04	-0.79	81.40	82.78	+1.38	0.0	0.3	Bardhaman	Moorsheadabad	SOUTH WEST BENGAL.		
90	0.9	NH	NH	0.58	0.41	2.03	-1.41	82.82	82.50	-0.32	0.0	0.3	Krishnanagar	Nuddea			
91	0.7	NH	NH	0.54	0.21	2.39	-2.17	84.90	86.71	+1.81	0.0	0.3	Jessore	Jessore Khoulia			
92	0.1	NH	NH	0.57	2.30	2.13	+0.42	102.90	116.61	+13.71	0.0	0.7	Chittagong	Chittagong	SOUTH WEST BENGAL.		
93	0.0	NH	NH	0.03	4.20	2.09	+1.20	69.80	85.88	+16.08	0.0	0.9	Debagiri	Chittagong Hill Tracts			
94	0.0	NH	NH	0.28	0.60	2.27	-1.77	70.11	80.33	+10.22	0.0	0.8	Barrackpore	Bachergunge			
95	1.0	NH	NH	0.67	2.80	4.03	-1.23	83.00	112.19	+29.19	0.0	1.1	Noakhali	Noakhali	SOUTH WEST BENGAL.		
96	1.7	NH	NH	0.57	1.30	2.83	-1.51	63.61	80.88	+17.27	0.0	0.8	Farrakka	Farrakka			
97	0.6	NH	NH	0.60	1.75	3.34	-1.59	77.94	84.14	+6.20	0.0	0.9	Dacca	Dacca			
98	3.6	NH	NH	0.88	1.63	4.89	-2.84	89.44	74.72	-14.72	0.0	1.0	Comilla	Tipperah	SOUTH WEST BENGAL.		
99	0.0	NH	NH	0.48	2.50	2.40	+0.10	91.29	70.43	-20.86	0.0	0.7	Mymensingh	Mymensingh			
100	1.4	NH	NH	0.10	0.77	1.18	-0.41	60.20	80.19	+19.99	0.0	0.8	Hogra	Hogra			
101	2.7	NH	NH	0.43	2.01	1.78	+0.23	87.38	86.18	+1.20	0.0	0.7	Serajpore	Fubna	SOUTH WEST BENGAL.		
102	1.3	NH	NH	0.23	0.09	1.13	-1.06	34.43	86.71	+52.28	0.0	0.4	Rampore	Rajshahy			
103	0	NH	NH	0.13	0.11	0.59	-0.46	89.94	53.40	-36.54	0.0	0.4	Maidah	Maidah			
104	0.1	NH	NH	0.13	0.04	0.60	-0.63	87.63	86.67	-0.96	0.0	0.4	Dumra	Dumra	SOUTH WEST BENGAL.		
105	0	NH	NH	0.41	0.03	1.71	-1.00	80.89	78.97	-1.92	0.0	0.8	Kanpur	Kanpur			
106	0	NH	NH	0.53	0.00	2.17	-2.17	117.70	113.61	+4.09	0.0	0.7	Jalpaiguri	Jalpaiguri			
107	0	NH	NH	0.80	0.07	2.54	-2.47	183.33	184.80	+1.47	0.0	1.1	Darjeeling	Darjeeling Hill Tracts	SOUTH WEST BENGAL.		
108	0	NH	NH	0.00	0.00	0.00	-0.47	70.00	80.70	+10.70	0.0	0.3	Purnea	Purnea			
109	0	NH	NH	0.00	0.07	0.51	-0.44	48.22	44.44	-3.78	0.0	0.3	Mohamudpur	Mohamudpur			
110	0	NH	NH	0.02	0.00	0.02	-0.20	53.47	42.44	-11.03	0.0	0.3	Dumra	Dumra	SOUTH WEST BENGAL.		
111	0	NH	NH	0.08	0.15	0.44	-0.20	64.11	47.01	-17.10	0.0	0.3	Mohamudpur	Chumpan			
112	0.3	NH	NH	0.03	0.17	0.23	-0.00	60.30	43.00	-17.30	0.0	0.3	Chumpan	Saran			
113	0	NH	NH	0.06	0.40	0.63	-0.30	40.40	40.00	-0.40	0.0	0.2	Dehra	Dehra	SOUTH WEST BENGAL.		
114	0	NH	NH	0.08	0.20	0.41	-0.10	37.34	41.18	+3.84	0.0	0.3	Gya	Gya			
115	0	NH	NH	0.00	0.13	0.34	-0.22	43.61	48.07	+4.46	0.0	0.3	Bankipore	Patna			
116	0	NH	NH	0.08	0.00	0.33	-0.29	42.53	44.04	+1.51	0.0	0.3	Bhagalpur	South Bhagalpur	SOUTH WEST BENGAL.		
117	0	NH	NH	0.00	0.44	0.60	-0.15	54.00	81.88	+27.88	0.0	0.3	Boomsa	South Pargannas			
118	1.7	NH	NH	0.03	0.61	0.91	-0.10	43.64	81.88	+38.24	0.0	0.3	Manabadi	Manabadi			
119	0	NH	NH	0.07	1.00	0.83	+0.83	80.00	80.00	0.00	0.0	0.3	Ranchi	Lehardpore	SOUTH WEST BENGAL.		
120	0	NH	NH	0.00	0.91	0.53	+0.04	20.27	43.00	+22.73	0.0	0.3	Ranchi	Manabadi			
121	0.7	NH	NH	0.31	1.08	1.34	-0.10	40.84	83.00	+42.16	0.0	0.3	Chyabasa	Singbhum			

NOTE.—The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means for the week ending Friday, the 4th of April 1890, are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of April 1890.

[illegible]

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of April 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL.		Total rainfall since 1st of March.	Average total rainfall from 1st of March.	Total rainfall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 29th March.	Sunday, 30th March.	Monday, 31st March.	Tuesday, 1st April.	Wednesday, 2nd April.	Thursday, 3rd April.	Friday, 4th April.	Number rainy days.	Rainfall week.			
NORTH BENGAL—continued.	Chumpra.	Mothari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.43	75.53	45.48
		Retish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.43	75.53	45.48
		Bachha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.43	75.53	45.48
		Barkhara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.43	75.53	45.48
SOUTH BENGAL.	Saran.	Gopalgunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	25.78	44.27
		Chuprah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.14	44.43	41.73
		Buxar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.11	40.83	41.24
		Dehri	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.30	47.74	38.28
	Shahabad.	Bhabonah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.70	41.02	40.97
		Sameran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.45	84.01	41.04
		Arrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.27	37.31	41.46
		Mekaniah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.37	42.92	41.17
	Gya.	Aurungabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.38	32.03	42.03
		Gya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.35	40.20	43.54
		Nawadah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.13	39.72	41.40
		Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.41	37.77	40.94
	Patna.	Arwal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	31.40	41.40
		Jalandhar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	31.40	41.40
		Sherrahat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	31.40	41.40
		Rasooli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	31.40	41.40
	Monghyr.	Pakri-Barawan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.15	31.40	41.40
		Patna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.07	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.35	45.31	42.08
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.35	45.31	42.08
CHUTTA NAGPUR.	South Bhagalpore.	Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
	Mouthal Pergunnahs.	Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
	Lehardaga.	Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
	Singbhoon.	Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
	Mambhoon.	Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78
		Barh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.19	31.50	42.78

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 8th April 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 4TH
OF APRIL 1890.**

DURING the past week very dry weather with fairly high temperature has continued, no rain having fallen at any of the stations in the province. Notwithstanding the absence of rain, temperature, though above the normal for the week, has not been so much in excess as during the previous week, and pressure having been rising slowly but continuously, the large defect, which has been so characteristic a feature for some time, has disappeared, and a slight excess was general in Bengal towards the end of the week. Wind circulation has been almost without change from first to last, south or south-west directions prevailing in the southern districts, westerly in Behar, and easterly or north-easterly in the north-east corner; the last being due to the winds from the Assam valley.

On Saturday, the first day of the week, pressure was about a twentieth of an inch in defect, except in Chutia Nagpur, and temperature from four to six degrees above the normal, the largest excess being 7·8° at Mymensingh. On the following day pressure was slightly in excess in Chutia Nagpur and South Behar, while the defects had diminished elsewhere. The change of pressure on Sunday was from one to two-hundredths of an inch, except in North Bengal and South Behar, where it was from two to three-hundredths. Temperature changed irregularly, but had generally fallen. Similar changes continued during the rest of the week, and from Wednesday, the 2nd of April, pressure was everywhere above the normal by small amounts, while temperature was deficient in Behar, Chutia Nagpur, and part of South-West and North Bengal. On Friday, the last day of the week, pressure was in excess by amounts ranging from 0·05 inch to 0·08 inch, and temperature was below the normal in Orissa and Behar, but was only from one to two degrees above in the other districts.

Pressure—As shown above, has been slowly rising throughout the week, changes being in all cases small except on Friday, when there was a more rapid rise in East and North Bengal. The result of the steady rise is that from being about a twentieth of an inch below, it has become a twentieth of an inch above the normal. The means for the week are very nearly normal, excess being under a hundredth of an inch except in Behar and Chutia Nagpur, where it ranges from two to four-hundredths.

Temperature—Continues in excess during both night and day, but the night temperatures are relatively lower this week, the difference from the normal at the stations given in the table below being generally between one and two degrees. Maximum temperatures are more irregular, for at Calcutta, Dacca, Purneah, and Darjeeling, mean excess is from 3° to 4° above the normal, but at Cuttack, Burdwan, Patna, and Hazaribagh it is 2° or under. The means for the large divisions of the province are nearly normal in Orissa and Behar, 1° above in Chutia Nagpur, 1·5° in North Bengal, and nearly 3° in South-West and East Bengal.

The actual temperatures during the week, the range from day to night, and their variation from the normals, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 4th April 1890.

	Normal mean maximum temperature for the week ending 4th April.	Actual mean maximum temperature for the week ending 4th April 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 4th April.	Actual mean minimum temperature for the week ending 4th April 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 4th April.	Actual mean daily temperature for the week ending 4th April 1890.	Variation of actual mean from the normal.
Cuttack	100·9	102·4	+1·5	70·4	70·0	+1·6	88·6	89·2	+1·6
Calcutta	97·5	98·3	+0·8	74·4	75·7	+1·3	86·4	87·1	+0·7
Dacca	95·0	97·0	+2·0	74·2	75·3	+1·1	86·0	88·2	+2·2
Burdwan	98·6	101·6	+3·0	74·5	75·6	+1·1	87·0	88·0	+1·0
Patna	98·7	100·0	+1·3	71·5	75·4	+3·9	85·1	86·2	+1·1
Gaya	100·7	100·0	-0·7	73·0	73·0	0·0	86·8	86·8	0·0
Purneah	96·4	99·8	+3·4	68·3	61·4	-6·9	82·4	80·4	-2·0
Hazaribagh	97·5	96·0	-1·5	70·4	70·7	+0·3	82·8	81·4	-1·4
Darjeeling	58·8	61·3	+2·5	46·3	48·1	+1·8	53·0	55·5	+2·5

Rainfall.—No rain has been reported

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 4th of April 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of March.		Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	104°4	72°8	88°4	77°8	82°6	+5°1	Nil	0°30	—0°30	0°0	0°3	—0°6	0°37	1°17	64°52	35°04
South-West Bengal	105°4	69°7	100°4	75°5	87°9	+2°8	Nil	0°00	—0°00	0°0	0°7	—0°7	0°57	1°00	53°38	56°58
East Bengal	98°6	70°3	82°5	73°3	82°9	+2°7	Nil	0°01	—0°01	0°0	0°9	—0°9	0°00	0°04	78°00	70°30
North Bengal	102°8	64°8	88°2	66°9	82°6	+1°8	Nil	0°20	—0°20	0°0	0°6	—0°6	0°34	1°35	73°08	78°34
North Behar	101°3	67°9	86°8	62°2	80°1	0	Nil	0°07	—0°07	0°0	0°3	—0°3	0°10	0°42	56°00	49°54
South Behar*	108°0	66°4	100°0	71°2	84°9	+0°7	Nil	0°07	—0°07	0°0	0°3	—0°3	0°38	0°44	64°44	66°70
Chhatis Nagpur	97°5	68°4	86°7	70°0	82°8	+1°0	Nil	0°04	—0°04	0°0	0°3	—0°3	1°08	1°04	64°10	43°10

* Gaya and Chyabasa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 8th April 1890.

C. LITTLE,
For Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th March to 5th April 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
Mar. 1890 ...	30th ...	29.809	86.5	88.2	25.4	74.8	90.4	75.1	663	67.0	66	Nil.
" " "	31st ...	877	85.5	89.2	21.4	77.8	89.5	79.8	886	76.6	64	"
April " "	1st ...	854	87.6	90.0	22.8	76.2	89.5	79.5	873	75.1	63	"
" " "	2nd ...	868	87.9	90.0	22.2	76.8	88.8	80.0	906	76.2	67	"
" " "	3rd ...	881	85.9	96.0	20.2	75.8	88.6	80.5	938	77.1	69	"
" " "	4th ...	919	85.3	94.8	19.0	75.8	87.6	79.7	909	76.3	69	"
" " "	5th ...	917	85.3	94.2	17.4	76.8	86.4	80.2	948	77.6	75	"

The mean 10 A.M. pressure of the seven days 29.875

The mean temperature of the seven days 86.7

The extreme variation of temperature 24.4

The maximum temperature 99.2

The mean 10 A.M. relative humidity of the seven days 65

The total fall of rain from 30th March to 5th April 1890 Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA ;
The 7th April 1890.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE following summary of results has been deduced from the annexed table exhibiting the vital statistics of the principal Municipalities in Bengal for the week ending 22nd March 1890:—

1. The ratios per mille of births stood at 22·8 as opposed to 20·9 during the preceding week ending 15th March, and of deaths at 21·5 against very nearly the same proportion, viz., 21·7. There was thus an improvement in the registration of births only.

2. The following Municipalities registered the highest proportions of births and deaths:—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Arrah	...	56·3	Jessore	...	61·2
Utterpara	...	47·2	Midnapore	...	49·5
Ranaghat	...	41·9	Poori	...	48·3
Comillah	...	38·5	Utterpara	...	47·2
Santipore	...	35·0	Serampore	...	47·1
Poori	...	33·6	Comillah	...	42·4
Rampore Beaulah	...	31·6	Gya	...	41·0
Monghyr	...	30·7	Darjiling	...	37·0
Jessore	...	30·6	Ranaghat	...	29·9

3. The mortality from the registered death-causes was as follows, in comparison with that in the preceding week ending 15th March:—

Ratio per mille during the weeks ending—					
22nd March 1890. 15th March 1890.					
Cholera	...	...	...	3·8	4·3
Small-pox	...	...	...	·9	·7
Fever	...	...	...	9·9	8·3
Bowel-complaints	...	...	...	2·0	2·4
Injury	...	...	...	·4	·3
Other causes	...	...	...	6·4	5·4

The above figures denote chiefly that there was a noticeable decrease in the death-rate from cholera with an increase in that from fever.

4. Of the abovementioned death-causes, cholera, fever, and the maladies returned under the head "Other causes" proved conspicuously fatal in the following Municipalities:—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Comillah	34·7	Jessore	42·8	Midnapore	30·1
Midnapore	18·6	Gya	31·4	Serampore	17·6
Howrah	7·4	Purneah	27·7	Poori	14·7
Dacca	3·9	Rampore Beaulah	26·3		
Gya	3·4				

The mortality from small-pox in the Poori town, although still high, was below that of the preceding week ending 15th March, viz., 14·7 against 16·8 per 1,000 of population.

5. Under the heads of Sex, Class and Age, the mortality of the week stood as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	23·7	Christians	14·9	Under 1 year	149·5
Females	19·1	Hindus	22·3	1 and under 5 years	25·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	124	Mahomedans	19·8	5 " 10 "	12·7
				10 " 15 "	10·8
				15 " 20 "	12·8
				20 " 30 "	11·3
				30 " 40 "	13·1
				40 " 50 "	19·5
				50 " 60 "	27·5
				60 years and upwards	60·1

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

The 7th April 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending 22nd March 1896.

[illegible]

[illegible]

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 8th April 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commission for Bengal.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 22nd March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-turb.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	152,914	82,550 0 0	5,00,280 0	80,500 0 0	15,430 0 0	1,04,570 0 0	82,069	27,240	80,299
Or per mile of railway	205	111 0 0	682 0	119 0 0	74 0 0	254 0 0	.....	.....	.....
For previous 11 weeks of half-year	1,729,680	8,53,406 0 0	63,96,500 0	12,52,418 0 0	2,07,441 0 0	*22,13,264 0 0	244,887	230,423	574,792
Total for 12 weeks	1,882,594	9,35,956 0 0	69,06,780 0	13,41,008 0 0	2,22,871 0 0	24,99,534 0 0	267,426	257,663	625,091
COMPARISON.									
Total for corresponding week of previous year	146,806	69,791 0 0	4,77,294 0	65,098 0 0	12,108 0 0	1,48,594 0 0	21,512	22,713	44,225
Per mile of railway corresponding period of previous year	200	104 0 0	710 0	96 0 0	72 0 0	203 0 0	.....	.....	.....
Total to corresponding date of previous year	1,780,047	9,45,347 0 0	60,11,300 0	10,44,011 0 0	2,05,548 0 0	21,94,906 0 0	257,652	238,547	596,199

* Audited up to week ending 1st February 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 22ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Ms.
678	1,48,594	221	747	1,04,570	240	678	1,04,57,236	204	726	*1,12,71,000	204	8,33,705	.....

* Audited up to week ending 1st February 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 22nd March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	22,000	10,340 0 0	61,080 0	2,500 0 0	70 0 0	13,910 0 0	2,728	1,937	4,665
Or per mile of railway	205	83 0 0	481 0	28 0 0	.....	111 0 0	.....	.....	.....
For previous 11 weeks of half-year	265,950	1,07,944 0 0	4,59,500 0	21,640 0 0	723 0 0	*1,40,319 0 0	20,483	20,702	41,185
Total for 12 weeks	287,950	1,18,284 0 0	5,19,580 0	22,140 0 0	893 0 0	1,54,339 0 0	42,227	22,639	64,866
COMPARISON.									
Total for corresponding week of previous year	20,509	11,061 0 0	60,287 0	4,082 0 0	97 0 0	15,190 0 0	2,751	1,937	4,688
Per mile of railway corresponding period of previous year	242	89 0 0	484 0	32 0 0	1 0 0	122 0 0	.....	.....	.....
Total to corresponding date of previous year	243,578	1,22,330 0 0	6,61,200 0	24,147 0 0	6,245 0 0	1,60,722 0 0	42,907	22,697	65,604

* Audited up to week ending 1st February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 22ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Ms.
125	15,190	122	125	13,910	111	125	7,40,877	111	125	*7,15,600	115	8,003	.....

* Audited up to week ending 1st February 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd March 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		(Other earnings estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,000	8,500 0 0	18,030 0	1,000 0 0	80 0 0	8,580 0 0	2,480	630	3,110
(Or per mile of railway ...)	187	70 0 0	217 0	12 0 0	1 0 0	71 0 0	28	7	35
For previous 11 weeks of half-year ...	180,110	98,464 0 0	8,11,710 0	31,023 0 0	2,029 0 0	*1,01,418 0 0	28,215	8,356	36,571
Total for 12 weeks ...	202,200	74,964 0 0	8,30,740 0	32,023 0 0	2,109 0 0	1,03,027 0 0	30,695	8,986	39,681
COMPARISON.									
Total for corresponding period of previous year ...									
Per mile of railway corresponding period of previous year ...	14,390	4,654 0 0	18,302 0	1,023 0 0	-67 0 0	5,519 0 0	2,480	630	3,110
Total to corresponding date of previous year ...	167	64 0 0	213 0	12 0 0	-1 0 0	65 0 0	28	7	35
	185,806	58,807 0 0	1,46,371 0	12,562 0 0	1,597 0 0	73,566 0 0	29,119	7,996	37,115

* Audited up to week ending 1st February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 22ND MARCH 1890.			RECEIPTS FOR WEEK ENDING 22ND MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND MARCH 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,519	65	86	3,480	50	86	2,97,020	65	86	*3,25,154	60	66,134	...

* Audited up to week ending 1st February 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 20th March 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		(Other earnings estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,100	1,214 0 0	13,020 0	634 0 0	20 0 0	1,254 0 0	530	254	784
(Or per mile of railway ...)	114	68 0 0	641 0	34 0 0	1 0 0	69 0 0	...	...	...
For previous 11 weeks of half-year ...	20,160	13,998 0 0	1,66,853 0	10,419 0 0	477 0 0	34,894 0 0	5,830	6,343	12,173
Total for 12 weeks ...	42,270	15,212 0 0	1,79,873 0	11,033 0 0	497 0 0	35,772 0 0	6,360	6,597	12,957
COMPARISON.									
Total for corresponding week of previous year ...									
Per mile of railway corresponding week of previous year ...	138	83 0 0	633 0	33 0 0	13 0 0	2,077 0 0	500	254	754
Total to corresponding date of previous year ...	45,100	17,076 0 0	1,80,450 0	9,914 0 0	1,010 0 0	28,000 0 0	6,471	6,687	13,158

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 20TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 20TH MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH MARCH 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,077	70	27½	1,878	69	27½	1,03,941	70	27½	1,02,763	76	...	480

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 29th March 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight earned.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	63,041	19,451 0 0	2,66,084 0	29,399 0 0	2,793 0 0	51,603 0 0	5,416	7,651	13,067
Or per mile of railway ...	194	71 0 0	975 0	108 0 0	3 0 0	183 0 0	...	...	...
For previous 11 weeks of half-year ...	593,617	2,38,047 0 0	31,44,593 0	3,43,836 0 0	38,000 0 0	6,31,973 0 0	66,503	119,708	176,211
Total for 12 weeks ...	614,058	2,57,498 0 0	34,10,557 0	3,83,215 0 0	40,893 0 0	6,83,975 0 0	69,919	121,359	191,278
COMPARISON.									
Total for corresponding week of previous year ...	51,074	19,083 0 0	1,40,966 0	12,551 0 0	2,947 0 0	34,160 0 0	4,707	5,944	9,651
Per mile of railway corresponding week of previous year ...	187	68 0 0	516 0	46 0 0	1 0 0	116 0 0	...	...	...
Total to corresponding date of previous year ...	523,664	2,03,936 0 0	17,19,960 0	1,62,781 0 0	20,935 0 0	4,06,833 0 0	71,416	70,546	141,961

* Steam-bent earnings included in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 30TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 30TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH MARCH 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	24,100	125	273	51,086	180	266 76	16,55,536	126	273	21,73,917	120	5,18,082	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 22nd March 1890	...	...	7,487
Corresponding period of 1889	...	...	9,048
Decrease	...	...	1,561
Receipts per mile for week ending 22nd March 1890	...	...	Rs. A. P. 143 12 10
Corresponding period of 1889	...	...	177 6 10
Decrease	...	...	80 10 0
Receipts from 1st January to 22nd March 1890	...	...	95,867
Corresponding period of 1889	...	...	96,207
Decrease	...	...	540



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 16, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Road Cess.

No. 1469 R.C.

Calcutta, the 11th April 1890.

READ—

Letter from the Accountant-General, Bengal, No. ^{L.F.}₇₄₄, dated the 29th March 1890, submitting an abstract of receipts and expenditure of the several District Road Committees in Bengal, for the quarter ending 31st December 1889.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees for the 3rd quarter of the year 1889-90 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong and Chota Nagpore Divisions, to the Superintending Engineers of the Eastern and Western Circles, and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

*Under-Secy. to the Govt. of Bengal,
P. W. Dept.*

DISTRICT

Statement of Receipts and Expenditure of the several District Road

RECE

Districts.	Balance in treasury on 1st October 1889.	PROVINCIAL RATES.					Interest on arrears of road cess.	PUBLIC WORKS.			IRRIGATION.	MISCELL.	
		Cess on lands.	Cess on mines.	One per cent road cess.	Cess on houses.	Total.		Road tolls.	Ferry tolls.	Total.		Canal tolls.	Rent of serais and starting- bungalows.	Fees, fines and forfeitures.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Cess Districts.													
Darjeeling	4,983 0 10	1,312 2 3	10 15 6	.....	.....	1,322 1 9	.....	.....	.....	.....	.....	.....	.....
Hazaribagh	12,489 9 2	10,466 4 5	2,219 3 3	.....	.....	12,685 7 8	19 3 8	.....	.....	.....	.....	64 8 0	2,527 1 0
Lehardaga	7,338 1 7	14,001 15 11	.....	.....	.....	14,001 15 11	12 8 3	.....	.....	.....	.....	6 0 0	362 8 6
Manbhum	4,816 4 1	6,344 12 7	1,736 0 8	.....	.....	8,076 13 3	50 9 9	.....	.....	.....	.....	572 7 6	.....
Total	31,667 5 8	33,027 3 2	3,966 3 5	.....	.....	36,993 6 7	32 7 8	.....	.....	.....	.....	646 15 6	2,890 3 0
Non-cess Districts.													
Chittagong Hill Tracts	4,467 13 9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	166 13 0	1 0 0
Southal Pergunna	33,198 16 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15 8 0	.....
Singbhum	10,639 13 2	2,481 0 0	2 0 6	.....	.....	2,483 0 6	.....	.....	.....	.....	.....	.....	.....
Total	48,304 13 9	2,481 0 0	2 0 6	.....	.....	2,483 0 6	.....	.....	.....	.....	.....	179 4 0	1 0 0
GRAND TOTAL	80,011 9 1	35,508 3 2	3,968 3 11	.....	.....	39,476 7 1	32 7 8	.....	.....	.....	.....	825 5 6	2,891 3 0

EXPENDITURE

Districts.	RECORDS.			PROVINCIAL RATES.	ADMINISTRATION.			STATIONERY.	PUBLIC WORKS.				
	Cess.	Other receipts.	Total.		Establishment and contingencies of office of collection.	Establishment and contingencies of Committee's office.	Percentage cost of establishment for office of account and control.		Stationery and printing.	Original works.	Repairs.	Establishment.	Tools and plant.
	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Chittagong District													
Darjeeling	.....	.....	.....	302 9 0	912 8 0	263 1 10	475 9 10	9 4 3	294 13 6	52 2 0	610 0 0	.....	.....
Hazaribagh	.....	.....	.....	1,542 9 7	238 3 5	482 3 5	763 7 1	10 9 0	20 0 0	8,791 13 5	1,377 6 0	.....	.....
Lehardaga	.....	.....	.....	17 9 13 7	77 15 0	732 7 8	830 7 1	68 7 0	129 0 0	2,085 8 0	1,800 9 8	1 0 0	.....
Manbhum	.....	.....	.....	190 3 5	282 9 9	427 15 2	710 6 11	12 13 1	.....	5,115 8 8	1,295 0 0	.....	.....
Total	.....	.....	.....	3,026 3 7	790 4 10	1,925 10 1	2,721 14 11	37 2 4	441 13 6	10,586 0 1	2,810 15 8	2 0 0	.....
Non-cess Districts													
Chittagong Hill Tracts	.....	.....	.....	.....	167 0 0	.....	167 0 0	20 1 0	.....	875 10 6	1,337 0 0	.....	.....
Southal Pergunna	.....	.....	.....	.....	78 4 0	.....	78 4 0	25 1 3	.....	4,847 9 7	1,113 2 0	1,330 4 0	.....
Singbhum	.....	.....	.....	.....	.....	.....	.....	.....	80 9 0	1,505 13 8	493 8 0	12 10 0	.....
Total	.....	.....	.....	.....	245 4 0	.....	245 4 0	45 2 3	80 9 0	7,904 1 5	2,944 4 0	1,412 3 0	.....
GRAND TOTAL	.....	.....	.....	5,052 8 7	1,041 9 4	1,925 10 1	2,967 3 1	189 4 7	524 8 8	23,500 1 0	5,753 3 8	2,414 10 0	.....

FORT WILLIAM,

The 18th March 1890.

ROAD FUND.

Committees for the Third Quarter of the Year 1889-90, ending 31st December 1889.

PTS.

LANEWAYS.		Grant from Government.	SUSPENSE ACCOUNT.			Total receipts.	Balance of imprest in hands of Engineers and others, decreased.	Balance of unashed cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 31st December 1889.
Miscellaneous.	Total.		Advances.	Deposits.	Total.						
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
34 4 6	34 4 6	696 15 7	400 0 0	.....	400 0 0	2,400 5 10	.....	.....	7,348 6 8	5,135 5 8	2,206 1 0
3 4 0	1,000 7 9	678 0 9	2,002 16 8	.....	2,002 16 8	17,781 5 6	.....	.....	30,410 12 6	28,334 1 8	17,152 21 0
1 3 6	200 18 4	.....	278 6 8	250 0 0	528 6 8	15,914 10 8	.....	.....	28,175 2 3	7,025 10 4	15,247 7 13
1,000 0 0	2,074 7 6	.....	167 9 1	.....	167 9 1	11,901 7 7	6 3 7	.....	18,583 15 3	7,098 11 1	10,985 4 2
1,035 11 0	3,066 13 4	1,102 0 4	2,002 16 8	250 0 0	2,252 16 8	40,017 11 7	6 3 7	.....	79,017 4 10	34,017 12 9	45,000 2 1
7 14 0	7 14 0	1,900 0 0	1,027 8 9	.....	1,027 8 9	3,524 13 9	.....	78 4 9	4,945 11 9	2,242 11 8	2,633 0 4
29 14 0	107 10 8	.....	25 0 0	.....	25 0 0	2,750 8 9	.....	.....	37,005 2 0	10,450 14 4	26,552 3 6
223 0 3	264 0 3	.....	.....	.....	.....	.....	.....	.....	18,226 5 11	2,291 2 5	11,109 3 6
270 12 8	481 0 3	1,900 0 0	1,400 3 9	.....	1,400 3 9	4,383 4 6	.....	28 4 9	45,289 3 8	14,974 12 2	40,316 7 0
1,500 7 3	7,015 13 9	3,062 0 4	4,415 2 8	250 0 0	4,670 2 8	51,391 0 1	6 3 7	282 4 9	1,31,900 8 6	48,982 5 11	55,907 13 7

DITURE.

WORKS.		IRRIGATION.	MISCELLANEOUS.			Contribution to Provincial Government.	SUSPENSE ACCOUNT.			Total expenditure.	Balance of imprest in hands of Engineers and others, decreased.	Balance of unashed cheques, decreased.	Total outlay.
Responsible Superintendent of Works.	Total.		Canal fall, establishment and maintenance.	Staging, bunding, establishment and contingencies.	Staging, bunding, petty construction and repairs.	Miscellaneous.	Advances.	Deposits.	Total.				
Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
1,431 18 6	27 0 0	11 5 9	34 4 0	27 0 0	2,763 5 11	.....	2,763 5 11	4,882 15 6	.....	232 8 2	5,135 5 8
9,496 8 5	61 8 0	.....	.....	107 1 9	530 14 4	106 0 0	632 14 4	12,196 10 5	.....	771 7 3	18,248 1 9
4,437 9 9	53 9 0	300 0 0	55 0 0	355 0 0	7,714 7 1	.....	191 2 3	7,925 10 4
6,415 8 6	126 0 0	200 0 0	326 0 0	7,628 11 1	.....	.....	7,695 11 1
22,001 5 3	164 1 0	11 5 9	34 4 0	189 10 9	2,763 7 3	361 0 0	4,107 7 3	32,802 12 1	.....	1,315 0 8	34,017 12 9
2,212 10 8	129 11 0	10 8 6	.....	145 5 6	1,700 0 0	.....	1,700 0 0	2,242 11 8	.....	.....	2,242 11 8
6,576 9 7	40 8 3	.....	.....	51 1 6	.....	.....	.....	10,450 14 4	.....	.....	10,450 14 4
2,151 12 5	2,291 2 5	.....	.....	2,291 2 5
12,741 0 5	175 6 3	10 8 6	5 12 3	180 5 0	1,700 0 0	.....	1,700 0 0	14,974 12 2	.....	.....	14,974 12 2
34,742 8 8	319 1 3	30 14 3	40 0 0	388 18 9	5,440 7 3	581 0 0	6,007 7 3	47,777 8 3	.....	1,315 0 8	48,982 5 11

E. T. ATKINSON,

Accountant-General, Bengal.

CONTRIBUTIONS FROM BABUS RAMESSUR PERSAD NARAIN SINGH
OF MAKSUDPORE AND BAIJNATH SINGH OF GYA TOWARDS
THE LADY DUFFERIN FUND.

No. $\frac{L}{2}$ 2, dated Calcutta, the 10th April 1890.

From—P. O. LYON, Esq., Offg. Under-Secy. to the Govt. of Bengal, Judicial,
Political and Appointment Departments,

To—The Commissioner of the Patna Division.

I AM directed to acknowledge the receipt of your letter No. 149G, dated the 15th March 1890, in which you report that Babus Ramessur Persad Narain Singh of Maksudpore and Baijnath Singh of Gya have contributed Rs. 15,000 and Rs. 12,000, respectively, towards the Gya Branch of the Lady Dufferin Fund.

2. In reply, I am to request that you will be so good as to convey to these gentlemen an expression of the Lieutenant-Governor's appreciation of their public spirit and liberality. The correspondence will be published in the *Calcutta Gazette*.

No. 149G, dated Bankipore, the 15th March 1890.

From—JOHN BOXWELL, Esq., Offg. Commissioner of the Patna Division,

To—The Secretary to the Government of Bengal, Medical and Municipal Departments.

IN continuation of my letter No. 21G, dated 9th January 1890, I have the honour to report, for the information of Government, that Babus Ramessur Persad Narain Singh of Maksudpore and Baijnath Singh of Gya have respectively contributed Rs. 15,000 and Rs. 12,000 towards the Gya Branch of Lady Dufferin Fund. I beg to recommend that their liberal donations may be suitably acknowledged by Government.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 12th April 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.																
BENGAL.																			
<i>Western Districts.</i>																			
1	Burdwan April 12, '90 Cutwa Ranigunge	Nil 0.39 0.08	Weather—hot and seasonable. Want of rain felt in the Culna and Cutwa subdivisions. Prices of common rice— <div style="display: flex; justify-content: flex-end; align-items: center;"> <table style="margin-left: auto;"> <tr> <td>Sudder</td><td>...</td><td>...</td><td>15½</td></tr> <tr> <td>Culna</td><td>...</td><td>...</td><td>14</td></tr> <tr> <td>Cutwa</td><td>...</td><td>...</td><td>16</td></tr> <tr> <td>Ranigunge</td><td>...</td><td>...</td><td>18</td></tr> </table> <div style="margin-left: 10px;">} per rupee.</div> </div>	Sudder	15½	Culna	14	Cutwa	16	Ranigunge	18
Sudder	15½																
Culna	14																
Cutwa	16																
Ranigunge	18																
2	Bankura .. 12, '90	Nil	Weather—very hot. Rain wanted everywhere for preparation of fields for rice sowing. Cotton, <i>khusta til</i> , indigo, and <i>mung</i> are on the ground, some of them being irrigated where practicable. Transplantation of sugarcane commenced. Common rice 20 seers per rupee at Sudder and 19 seers at Bishenpore.																
3	Birbham .. 12, '90	Nil	No crop to report on. Prices of common rice 17 to 20 seers per rupee.																
4	Midnapur .. 12, '90	0.57	Rain of 5th very partial; none reported from subdivisions. Land in the Sudder subdivision being ploughed. Rice has risen slightly in price— <div style="display: flex; justify-content: flex-end; align-items: center;"> <table style="margin-left: auto;"> <tr> <td>Sudder</td><td>...</td><td>...</td><td>19</td></tr> <tr> <td>Tamluk</td><td>...</td><td>...</td><td>16</td></tr> </table> <div style="margin-left: 10px;">} per rupee.</div> </div>	Sudder	19	Tamluk	16								
Sudder	19																
Tamluk	16																
5	Hooghly .. 12, '90	Nil	Weather—growing warm at night. Wind from the east. No crops at present on the ground. Prices of common rice— <div style="display: flex; justify-content: flex-end; align-items: center;"> <table style="margin-left: auto;"> <tr> <td>Sudder</td><td>...</td><td>...</td><td>13</td></tr> <tr> <td>Serampore</td><td>...</td><td>...</td><td>16</td></tr> <tr> <td>Jehanabad</td><td>...</td><td>...</td><td>16</td></tr> </table> <div style="margin-left: 10px;">} per rupee.</div> </div>	Sudder	13	Serampore	16	Jehanabad	16				
Sudder	13																
Serampore	16																
Jehanabad	16																
	Howrah .. 12, '90	Nil	Weather—very hot. <i>Boro</i> paddy much injured by want of rain, which still holds off.																
<i>Central Districts.</i>																			
6	24-Perghs. April 15, '90	Nil	Weather—very hot and dry. <i>Boro</i> suffering from want of rain. Planting of sugarcane continues. Price of common rice 15 seers per rupee.																
7	Nudda .. 12, '90 Koochta .. Meherpur .. Choodanga .. Ranaghat ..	0.12 0.32 0.35 0.61 0.43	Weather—hot. There was a storm on the 5th. It was heaviest at Koochta, where there was hail. Harvesting of <i>rubbi</i> crops finished. The rain has done much good. Sowing of early rice has begun.																
8	Khoolna .. 12, '90	Nil	Weather—hot with strong wind. <i>Boro</i> being harvested with good outturn. Want of rain causing much anxiety.																
9	Jessore .. 12, '90 Jhenidah .. Magura ..	0.32 0.10 2.93	Weather—hot with strong south wind. The rainfall of the week has been beneficial to the cultivation of lands for <i>aus</i> and jute, but more rain is badly wanted.																
10	Moorsshedabad .. 12, '90	Nil	Weather—hot. Lands are being prepared for <i>bhadoi</i> sowings. Rain needed.																
11	Dinagepur .. 12, '90	1.10	Weather—changeable. West winds have begun again. Jute and <i>bhadoi</i> being sown and sugarcane being planted. Prospects good.																
12	Rajahmhye .. 12, '90 Nattore ..	Nil 0.23	Weather—cloudy in the morning; hot. Harvesting of <i>rubbi</i> crops almost over. Rain badly wanted for ploughing.																
13	Rangpur .. 12, '90 Nilphamari ..	Nil 0.11	Weather—unsettled; sultry with high winds. All crops suffering from want of rain.																
14	Hogra .. 12, '90	0.04	Weather—seasonable. <i>Aus</i> rice and jute are being sown. Sugarcane is still being pressed. Prospects satisfactory. Common rice selling at 18 seers per rupee.																
15	Pabna .. 12, '90	0.08	Weather—hot; somewhat unsettled. <i>Aus</i> , <i>amun</i> , and jute being sown in some places. Rain wanted. Mustard crop not quite an average one. Common rice 14 to 15 seers per rupee.																
16	Darjeeling .. 12, '90	1.11	Weather—cloudy; sometimes fair. The little rain has done much good, and more is needed. In the Hills wheat and barley harvested in some places; <i>bhutta</i> and potatoes have come up. In the Terai there is an apprehension of a loss of the <i>bhadoi</i> crops unless timely showers come.																
17	Julpigoree .. 12, '90	0.90	Days hot, but nights cool. Condition of tobacco good. Sowing of jute commenced in Patgram. Rain much wanted for preparation of land for <i>bhadoi</i> crops. Prices almost stationary.																

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca April 12, '90	1.48	Weather—hot and cloudy at intervals. Cultivation for early rice and jute going on. More rain wanted. <i>Boro</i> paddy being harvested. Common rice 13 to 16 seers per rupee.
	19 Farreedpur „ 12, '90	0.32	Weather—hot and cloudy at intervals. Harvesting of <i>rabbi</i> crops over with an outturn of eight annas on the average. Cutting of <i>boro</i> paddy in progress. Rain wanted for the commencement of agricultural operations. Price of common rice varies from 14 to 16 seers per rupee.
	20 Backergunge „ 12, '90	Nil	Weather—hot and cloudy. Prospects of <i>rabbi</i> crops fair. Common rice selling at 13 seers per rupee.
	21 Mymensingh „ 12, '90	1.57	Weather—hot during day, stormy towards evening, and cool at night. Prospects of crops good. Coarse rice selling at 13½ seers per rupee on the average.
Chittagong Divn.	22 Chittagong „ 12, '90	0.21	Weather—seasonable. State of chilly crop good. <i>Pania aus</i> being sown. Prices stationary.
	23 Noakholly „ 12, '90	0.06	Weather—warm; cloudy at times; strong southerly wind. Preparation of soil for <i>aus</i> crops progressing. Rain wanted. Common rice is sold at from 14 to 18 seers per rupee at head-quarters.
	24 Tipperah „ 12, '90	0.21	Weather—warm with high winds. Prospects of <i>boro</i> paddy good. <i>Aman, aus</i> , and jute being sown. Rain much needed.
	25 Chittagong Hill Tracts. „ 11, '90	0.23	Weather—very hot throughout the week and cloudy and rainy on the 7th and 8th. <i>Jam</i> cutting still continues. <i>Jam</i> burning is being retarded by rain. Gathering of tobacco and chillies continues. Common rice is being sold at 13 seers 14 chittacks per rupee.
	Hill Tipperah „ 12, '90	Nil	Weather—hot. <i>Jams</i> still being burnt. <i>Boro</i> paddy doing well.
BEHAR.			
Patna Divn.	26 Patna „ 12, '90	Nil	Weather—hot and dry. Harvesting of <i>rabbi</i> crops over. Threshing of corn still continues. Sowing of <i>cheena</i> going on. Prices of food-grains almost stationary. Opium weighment going on.
	27 Gya „ 11, '90	Nil	Weather—hot. Threshing of <i>rabbi</i> crops still going on. Opium weighments in progress throughout the district.
	28 Shahabad „ 12, '90	Nil	Weather—hot with strong west winds. <i>Rabbi</i> crops harvested with an average outturn of 12½ annas. Sugarcane and <i>cheena</i> being sown.
	29 Darbhanga „ 12, '90	Nil	Weather—changeable. Paddy, <i>mung</i> and <i>cheena</i> doing well, but rain very much wanted for them. Indigo plants coming on well. Prices have slightly risen.
	30 Mousterpur „ 12, '90	Nil	Weather—hot; east wind in early part of week, west wind latterly. <i>Rabbi</i> is being threshed. Outturn of linseed estimated at 13 annas.
	31 Saran „ 12, '90	Nil	Weather—dry and hot. Harvesting of <i>rabbi</i> completed; outturn estimated at 16 annas. <i>Cheena</i> is being irrigated and gives good prospect. Opium weighments in full swing.
	32 Champaran „ 12, '90	Nil	Mornings still cool; east and west winds blowing alternately. Harvesting of <i>rabbi</i> finished. Indigo, paddy, and <i>cheena</i> growing well. Opium weighment going on: outturn less than was expected.
	33 Monghyr „ 12, '90	Nil	Weather—hot and dry. Threshing of <i>rabbi</i> crops in progress. Outturn estimated to be 14 annas. Indigo coming up well in Begusarai. Prices almost stationary.
Bhagalpur Divn.	34 Bhagalpur Banks „ 12, '90	Nil 0.23	Weather—hot, windy and dusty. Some rain at Banks on the 9th. Rain still wanted for cultivation of <i>dhadoi</i> . Prospects of <i>mahas</i> not good.
	35 Purneah „ 12, '90	Nil	A little rain here and there on the 8th; westerly wind again on the 12th; nights cool. <i>Rabbi</i> harvesting still going on; outturn fair in some places, not so good in others. Rain would be beneficial to <i>dhadoi</i> crops.
	36 Maidah „ 12, '90	Nil	Weather—very hot with strong east winds. Harvesting of <i>rabbi</i> crops nearly completed. <i>Boro</i> paddy is being watered. Rain is much wanted for <i>boro</i> and for <i>dhadoi</i> sowings. Common rice selling at an average of 16 seers per rupee.
	37 Sonthal Pergas. „ 12, '90	Nil	Weather—very hot; strong west wind. No crops to report about. <i>Mahas</i> much below the average. Mango promises well. Sugarcane doing well. Prices have risen a little. A shower of rain much wanted.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack April 12, '90	Nil	Weather—very mild for the time of year. <i>Dalsa</i> rice ripening and in some places being cut. Ploughing for <i>baali</i> and <i>esrad</i> rice has commenced. Prospects continue good.
	39 Poores ...	...	Report not received.
	40 Balasore .. 12, '90	Nil	Weather—cool for the time of year. More rain is much wanted all over the district. 187 coolies employed on relief work.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh April 12, '90	Nil	Weather—seasonable; days hot. <i>Makua</i> falling; 12 to 16 annas crop expected everywhere. Mango promises well.
	42 Lohardugga .. 12, '90	Nil	Weather—seasonable. Reaping of <i>rabbi</i> crops nearly completed. Lands being ploughed for early rice. <i>Tawa dhan</i> being sown. Prices steady.
	43 Singhbhum .. 12, '90	Nil	Weather—becoming very hot. Outturn of winter crops very good. Ploughing going on. From Baharagura the <i>makua</i> and mango crops are unfavourably reported on.
	44 Manbhum .. 12, '90	Nil	Weather—very hot. Outturn of <i>makua</i> 12 annas. Rice selling at from 20 to 25 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 15th April, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF WARE.	STOCK IN HAND AS COMPILED ON—												
	1st week of April 1889.	1st week of May 1889.	1st week of June 1889.	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.
Balaichatte	Mds. 12,67,000	Mds. 12,42,000	Mds. 7,67,500	Mds. 8,72,000	Mds. 7,82,700	Mds. 6,62,000	Mds. 8,00,000	Mds. 4,54,000	Mds. 2,96,500	Mds. 3,00,000	Mds. 5,45,000	Mds. 9,31,100	Mds. 15,32,500
Oelladanga	57,100	82,500	85,000	66,500	73,700	74,400	71,000	67,400	25,400	63,400	85,000	1,77,500	1,11,500
Chinnore, Gulabore, Conner, Ghat, Mathhola, and Outpoo Ghat.	7,04,000	7,54,300	6,94,800	6,83,400	6,07,700	8,76,300	6,74,100	6,33,300	5,60,000	6,00,400	5,94,000	5,62,000	8,91,000
Tatnuchhat, Poda, and Jhabagan.	3,000	3,000	3,500	2,000	2,000	4,000	3,000	3,000	3,000	4,000	5,000	4,000	3,000
Taliganga, Chitiah Kidderpore, and Mooshring.	1,44,100	1,59,000	1,19,700	1,03,700	1,10,700	73,500	64,200	63,200	60,100	52,700	60,100	1,21,000	1,34,500
21 Minor Bazaars (estimated) ...	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000	8,40,000
Other retail shops, 2,129 in number (estimated).	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000	8,90,000
Balaichhat, N. waboung, Hinddoo, and Chander, Ingore.	19,770	20,000	19,723	19,906	18,117	16,266	14,300	12,410	14,000	91,436	19,000	32,000	31,326
Total	37,19,192	37,60,466	31,84,123	32,00,508	31,30,917	33,98,100	35,23,000	37,31,310	38,12,000	38,03,075	40,45,508	42,08,366	46,77,576
On Railway premises on both sides of the river.	23,414 (on 4th April 1889.)	12,466 (on 11th May 1889.)	4,579 (on 3rd June 1889.)	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	9,096 (on 3rd Sept. 1889.)	9,008 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	9,577 (on 3rd Dec. 1889.)	23,007 (on 3rd Jan. 1890.)	24,835 (on 3rd Feb. 1890.)	47,938 (on 3rd Mar. 1890.)	24,903 (on 3rd Apr. 1890.)
On Balaichhat, Chinnore, Gulabore, and Ghat. ... (By Post Office "Business" returns.)	23,414 (on 4th April 1889.)	17,003 (on 11th May 1889.)	10,000 (on 3rd June 1889.)	25,010 (on 3rd July 1889.)	1,30,234 (on 3rd Aug. 1889.)	17,000 (on 3rd Sept. 1889.)	17,000 (on 3rd Oct. 1889.)	21,516 (on 3rd Nov. 1889.)	21,516 (on 3rd Dec. 1889.)	21,516 (on 3rd Jan. 1890.)	21,516 (on 3rd Feb. 1890.)	21,516 (on 3rd Mar. 1890.)	21,516 (on 3rd Apr. 1890.)
On Balaichhat, Chinnore, Gulabore, and Ghat. ... (By "usual returns".)	23,414 (on 4th April 1889.)	8,972 (on 11th May 1889.)	15,297 (on 3rd June 1889.)	27,106 (on 3rd July 1889.)	29,315 (on 3rd Aug. 1889.)	19,081 (on 3rd Sept. 1889.)	46,022 (on 3rd Oct. 1889.)	14,719 (on 3rd Nov. 1889.)	9,533 (on 3rd Dec. 1889.)	1,31,818 (on 3rd Jan. 1890.)	2,45,964 (on 3rd Feb. 1890.)	1,34,547 (on 3rd Mar. 1890.)	54,619 (on 3rd Apr. 1890.)
Grand total of Stocks	59,62,740	57,99,697	52,25,044	57,20,518	52,60,834	43,98,222	44,23,000	51,81,320	47,64,000	59,54,151	61,96,516	63,60,000	68,69,726
Probable stock available for exportation by sea.	15 lakhs	17½ lakhs	11½ lakhs	12½ lakhs	13½ lakhs	9 lakhs	6½ lakhs	7½ lakhs	8 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs

STATISTICAL DEPARTMENT,
The 7th April, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of March 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29.802		
The average pressure of March from 24 years' registers ...	29.869		
The highest pressure in the month	30.065	5th	10
The lowest pressure in the month	29.602	25th	16
The range of pressure	0.463		
Hours.			
The total number of hours of bright sunshine during the month	246.3		
The maximum possible number of hours of sunshine ...	371.3		
°			
The mean temperature of the month	81.1		
The average temperature of March from 24 years' registers ...	80.6		
The highest temperature in the month	100.8	29th.	
The lowest temperature in the month	62.4	1st.	
The range of temperature during the month	38.0		
The mean daily range of temperature	20.4		
The greatest range of temperature in one day	25.6	30th.	
Per cent.			
The mean humidity of the month	70		
The average humidity of March from 24 years' registers ...	66		
Inches.			
The mean vapour tension of the month	0.718		
The average vapour tension of March from 9 years' registers ...	0.702		
The mean cloud proportion of the month	2.95		
The average cloud proportion of March from 13 years' registers ...	2.39		
Inches.			
The total rainfall of the month	0.33		
The total rainfall indicated by a Beekley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0.29		
The average fall of March from 48 years' registers	1.34		
The greatest fall in 24 hours	0.18	9th.	
Days.			
The number of rainy days in the month	6		
The average number of rainy days in March from 24 years' registers	4		
°			
The mean maximum equilibrium temperature of solar radiation during the month	146.3		
The mean difference of sun and air temperatures	54.8		
The greatest sun temperature	152.6	29th.	
The greatest excess of sun over air temperature	61.0	10th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	66.0		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	5.4		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	8.8	7th.	
Miles.			
The mean movement of the wind per day	102.5		
The greatest movement of the wind in one day	202.0	20th.	
The greatest movement of the wind in one hour	16	17th	2 to 3 P.M.
The number of hours with winds from each of the 8 points—			
N. 32, N.E. 18, E. 11, S.E. 19, S. 172, S.W. 274, W. 113, N.W. 51, Calm 54.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1.0° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 14th April 1890.

For Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	STATION OBSERVATIONS.																
	District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, 9 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.	
ORISSA.	Pooree	Pooree	29.903	29.916	—	SW	43.0	87.7	6th, 8, 10	77.0	7th April	80.8	70.4	83.3	—	80.0	
	Gopalpore	Gopalpore	29.905	29.905	+0.04	SW	53.0	85.7	8th, 10th	78.8	6, 7, 8, 11	84.9	79.2	81.1	—0.3	81.0	
	False Point	False Point	29.907	29.910	+0.03	SW	50.0	88.5	6, 8, 10, 11	77.0	8th April	88.8	78.8	83.8	—0.3	83.8	
	Cuttack	Cuttack	29.534	29.916	+0.09	SW	118.3	101.9	11th	77.3	8th	86.5	79.0	86.3	—0.3	86.3	
SOUTH-WEST BENGAL.	Balassore	Balassore	29.843	29.903	+0.06	S	296.6	101.5	11th	74.9	8th	90.4	76.7	86.6	—0.1	86.6	
	South-West Midnapore	Sanger Island	29.890	29.916	+0.02	SW	511.0	90.7	9th & 11th	80.5	7th & 8th	90.2	80.9	85.6	+0.7	85.6	
	South St. Pergunnah	Midnapore	29.743	29.906	+0.07	S	189.9	107.4	11th	84.3	6th	90.9	76.8	87.4	+1.6	87.4	
	Midnapore	Midnapore	29.743	29.906	+0.07	S	189.9	107.4	11th	84.3	6th	90.9	76.8	87.4	+1.6	87.4	
SOUTH-WEST BENGAL.	St. Pergunnah	Calcutta	29.881	29.903	+0.02	SSW	171.0	96.0	8th & 11th	74.3	8th	92.8	78.7	84.8	—1.8	84.8	
	Howrah	Howrah	29.776	29.875	+0.01	S & SW	189.6	106.7	11th	78.4	7th	101.1	77.8	89.8	+1.1	89.8	
	Hooghly	Hooghly	29.853	29.866	+0.03	SW & S	124.7	107.5	11th	74.8	6th	102.9	76.8	89.3	+1.8	89.3	
	Burdwan	Burdwan	29.776	29.875	+0.01	S & SW	189.6	106.7	11th	78.4	7th	101.1	77.8	89.8	+1.1	89.8	
SOUTH-WEST BENGAL.	Banchoora	Banchoora	29.853	29.866	+0.03	SW & S	124.7	107.5	11th	74.8	6th	102.9	76.8	89.3	+1.8	89.3	
	Raneeswari	Raneeswari	29.844	29.883	+0.04	SSW	90.6	107.5	11th	74.9	6th	101.7	76.7	89.2	+0.6	89.2	
	West Burdwan	West Burdwan	29.804	29.873	+0.04	S	137.5	101.7	11th	73.3	7th	97.9	76.0	86.9	0	86.9	
	Moorshedabad	Moorshedabad	29.804	29.873	+0.04	S	137.5	101.7	11th	73.3	7th	97.9	76.0	86.9	0	86.9	
SOUTH-WEST BENGAL.	Krishnagar	Krishnagar	29.843	29.901	+0.06	SE & S	191.1	100.8	11th	76.1	7th	98.8	76.3	87.3	+2.3	87.3	
	Nuddee	Nuddee	29.873	29.900	+0.02	SE	100.3	97.8	11th	69.5	6th	94.6	76.1	84.9	—1.4	84.9	
	Jessore	Jessore	29.873	29.900	+0.02	SE	100.3	97.8	11th	69.5	6th	94.6	76.1	84.9	—1.4	84.9	
	Khoolna	Khoolna	29.873	29.900	+0.02	SE	100.3	97.8	11th	69.5	6th	94.6	76.1	84.9	—1.4	84.9	
SOUTH-WEST BENGAL.	Chittagong	Chittagong	29.874	29.903	+0.07	South-easterly	106.8	99.6	11th	70.0	6th	95.3	73.0	81.3	+0.3	81.3	
	Chittagong Hill Tracts	Dumagiri	29.921	29.933	+0.07	Calm & S	125.6	98.0	6th April	74.9	5 & 7	81.3	76.0	88.0	+0.7	88.0	
	Backergunge	Backergunge	29.921	29.933	+0.07	Calm & S	125.6	98.0	6th April	74.9	5 & 7	81.3	76.0	88.0	+0.7	88.0	
	Noakhally	Noakhally	29.912	29.966	+0.06	Variable	170.0	90.0	11th	69.3	6th	98.8	73.0	81.4	—1.3	81.4	
SOUTH-WEST BENGAL.	Farrakka	Farrakka	29.905	29.925	+0.02	S	100.1	93.8	6th	71.4	7th	90.1	74.4	81.7	—2.3	81.7	
	Dacca	Dacca	29.904	29.927	+0.03	SE	186.9	94.6	6th	68.2	6th	93.0	78.0	85.3	—1.1	85.3	
	Comilla	Comilla	29.909	29.945	+0.04	SE	123.4	94.8	6th & 8th	68.5	6th	92.8	73.4	83.9	+0.8	83.9	
	Mymensingh	Mymensingh	29.873	29.933	+0.06	ESE	119.0	93.1	6th	67.3	6th	89.3	71.8	80.3	+0.3	80.3	
SOUTH-WEST BENGAL.	Bogra	Bogra	29.832	29.896	+0.11	ESE	123.8	100.8	6th	69.1	6th	94.8	73.3	84.0	—0.3	84.0	
	Pubna	Pubna	29.856	29.903	+0.05	South-easterly	116.2	94.9	6th	66.7	6th	91.0	72.7	81.8	—2.3	81.8	
	Rajshahi	Rajshahi	29.810	29.880	+0.07	South-easterly	117.4	100.3	6th & 8th	73.3	7th	95.7	76.6	85.7	+1.1	85.7	
	Maldah	Maldah	29.805	29.897	+0.15	E	69.5	103.2	6th	68.2	6th	97.5	73.7	85.6	+1.6	85.6	
SOUTH-WEST BENGAL.	Dinapore	Dinapore	29.785	29.903	+0.06	E	129.7	102.1	6th	69.1	7th	94.1	75.0	83.3	+0.6	83.3	
	Rangpoor	Rangpoor	29.885	29.931	+0.11	SE	68.3	99.1	6th	65.8	7th	93.1	76.7	81.8	+2.9	81.8	
	Jalpaiguri	Jalpaiguri	29.818	29.911	+0.04	Out of order.	86.3	97.0	6th	63.9	6th	90.3	68.6	79.4	+1.4	79.4	
	Cooh Mahal	Cooh Mahal	29.818	29.911	+0.04	Out of order.	86.3	97.0	6th	63.9	6th	90.3	68.6	79.4	+1.4	79.4	
SOUTH-WEST BENGAL.	Darjeeling Hill Tracts	Darjeeling	29.835	29.903	+0.06	SW	142.0	66.1	6th	67.6	6th	41.3	46.8	54.0	+2.5	54.0	
	Purneah	Purneah	29.770	29.899	+0.10	ENE	83.7	101.8	6th	64.6	6th	96.0	71.6	83.7	+0.9	83.7	
	North Bhagulpore	North Bhagulpore	29.770	29.899	+0.10	ENE	83.7	101.8	6th	64.6	6th	96.0	71.6	83.7	+0.9	83.7	
	Mouafferpore	Mouafferpore	29.715	29.863	+0.01	ESE	117.6	99.4	8th April	?	?	86.5	?	?	?	86.5	
SOUTH-WEST BENGAL.	Darbhanga	Darbhanga	29.715	29.863	+0.01	ESE	117.6	99.4	8th April	?	?	86.5	?	?	?	86.5	
	Champaran	Champaran	29.687	29.890	+0.11	ENE & E	174.9	100.8	6th	69.3	5th April	97.0	79.4	83.7	+2.8	83.7	
	Chupra	Chupra	29.655	29.866	+0.07	E	90.4	103.3	11th	61.9	6th	98.6	79.6	84.4	+0.3	84.4	
	Shahabad	Shahabad	29.619	29.878	+0.06	SW	171.3	106.4	10th	72.0	5 & 7	104.1	76.4	90.3	+3.8	90.3	
SOUTH-WEST BENGAL.	Arzah	Arzah	29.620	29.875	+0.06	N.W.	125.4	104.0	10th	67.3	6th	101.3	74.1	85.7	+2.3	85.7	
	Gya	Gya	29.496	29.873	+0.07	Variable	128.0	106.4	10th	76.2	6th	106.5	78.6	91.1	+2.8	91.1	
	Patna	Patna	29.681	29.867	+0.07	NE	113.3	106.8	10th	66.7	6th	101.9	73.3	87.6	+1.4	87.6	
	South Bhagulpore	South Bhagulpore	29.696	29.863	+0.06	Calm & easterly	60.7	105.8	6th	70.3	6th	94.0	73.8	85.8	+0.8	85.8	
SOUTH-WEST BENGAL.	Monohir	Monohir	29.350	29.868	+0.07	Southerly	154.6	104.9	11th	73.0	6th	100.6	76.8	89.4	+0.3	89.4	
	Hazaribagh	Hazaribagh	29.721	29.861	+0.06	Westerly	218.5	100.6	10th	70.0	7th	98.2	75.8	86.0	+2.8	86.0	
	Lehardugga	Lehardugga	29.760	29.861	+0.01	Calm	130.1	100.1	11th	68.4	7th	98.0	73.0	85.3	+2.3	85.3	
	Manikgong	Manikgong	29.718	29.879	+0.07	W	60.9	107.9	11th	78.0	6th	103.0	78.5	89.0	+0.9	89.0	

* Means of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the last 10 years. The humidity of the atmosphere is expressed as a percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number at the bottom of the column of averages of the rainfall in that district determined from the returns sent in by the subdivisions for the period in question during the past 10 years in the district ending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

						DISTRICT OBSERVATIONS.										
						RAINFALL.										
						Since 1st of month.			Since 10th May 1909.							
Average humidity at 4 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.			Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.	
57	3'4	NH	NH	0'30	NH	0'45	-0'45	77'30	57'00	+19'30	0'0	0'5	Poorce Gopalpore ...	Poorce ...		
70	0'0	NH	NH											Fair Point ...		
10	4'7	NH	NH	0'17	NH	0'35	-0'35	60'30	54'11	+14'19	0'0	0'5	Ottack ...	Ottack ...		
50	0'7	NH	0'01	0'32	0'01	0'43	-0'43	57'54	55'07	-2'53	0'1	0'5	Balsore ...	Balsore ...		
73	0'0	NH	NH	0'30	NH	0'34	-0'34	50'97	55'25	-5'28	0'0	0'5	Saugor Island ...	Mouth West Midnapore South 24-Pergunnahs		
72	1'0	0'30	0'19	0'21	0'19	0'30	-0'00	47'01	54'47	-6'46	0'3	0'5	Midnapore ...	Midnapore ...		
70	1'7	NH	0'01	0'35	0'01	0'45	-0'44	54'70	54'05	-0'16	0'1	0'5	Calcutta ...	24-Pergunnahs... Howrah Hooghly		
70	2'0	NH	0'13	0'31	0'13	0'30	-0'23	44'02	49'54	-4'52	0'3	0'5	Burdwan ...	Burdwan ...		
73	2'0	NH	NH	0'25	NH	0'05	-0'23	55'33	54'30	+3'44	0'0	0'5	Bankoora ...	Bankoora ...		
72	3'7	0'05	0'30	0'16	0'30	0'33	+0'07	53'45	53'40	-0'05	0'5	0'5	Ranbegunge ...	Beerbhoom West Burdwan		
74	3'7	NH	0'07	0'19	0'07	0'31	-0'24	51'55	52'57	-1'01	0'7	0'5	Berhampore ...	Moorshedabad ...		
75	0'4	0'00	0'40	0'51	0'40	0'73	-0'24	53'51	53'71	-0'20	1'4	0'5	Krishnagar ...	Nuddea ...		
74	5'1	0'32	0'42	0'51	0'42	0'05	-0'24	55'38	57'23	-1'54	0'0	0'7	Jessore ...	Jessore Khoulina		
79	2'3	0'20	0'10	0'41	0'10	0'40	-0'30	100'00	117'05	-14'05	0'5	0'7	Chittagong ...	Chittagong ...		
82	1'7	NH	0'07	0'50	0'07	0'01	-0'54	78'00	50'53	-1'25	0'3	0'5	Demagiri ...	Chittagong Hill Tracts		
83	0'6	0'05	0'00	1'07	0'00	1'32	-1'25	50'78	113'20	-10'42	1'0	1'4	Barrisal ...	Backergunge ...		
83	4'8	0'43	0'76	0'50	0'76	0'01	-0'03	51'37	50'44	+3'03	2'0	1'1	Noakhally ...	Noakhally ...		
85	7'7	1'11	0'05	0'03	0'55	1'31	-0'55	78'50	63'07	+13'53	1'3	1'3	Farreedpore ...	Farreedpore ...		
76	6'2	0'31	0'43	0'07	0'45	1'34	-0'00	50'30	75'00	-16'30	1'5	1'4	Dacca ...	Dacca ...		
57	0'0	1'33	1'00	0'52	1'00	0'77	+0'23	50'37	71'15	+21'22	3'0	1'1	Commillab ...	Tippurah ...		
73	0'5	0'04	0'12	0'27	0'12	0'25	-0'23	50'51	50'45	+7'05	0'5	0'5	Mymensingh ...	Mymensingh ...		
84	7'1	1'06	1'10	0'40	1'10	0'77	+0'34	50'45	55'07	+1'51	2'0	0'7	Bogra ...	Bogra ...		
79	2'7	0'41	0'20	0'20	0'20	0'33	-0'12	54'53	55'51	-1'28	1'0	0'5	Seraingunge ...	Fubna ...		
77	3'0	NH	NH	0'16	NH	0'30	-0'30	50'00	55'00	-15'00	0'0	0'4	Rampore Beaulah ...	Rajshahye ...		
73	5'0	0'03	0'23	0'11	0'23	0'15	+0'00	57'75	55'05	-0'53	0'2	0'5	Maldah ...	Maldah ...		
77	2'3	NH	0'04	0'05	0'04	0'01	-0'07	50'43	70'33	+10'10	1'0	0'9	Dinapore ...	Dinapore ...		
74	3'0	1'23	2'76	0'30	2'76	0'72	+2'04	120'55	114'20	+6'35	2'4	0'9	Rangpore ...	Rangpore ...		
80	0'0	1'11	1'04	0'05	1'04	1'04	+0'05	125'47	125'34	+10'23	3'5	1'5	Julpigoree ...	Julpigoree Cooch Behar		
8	3'0	NH	NH													

years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. The amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means are given. The means of the district are the unweighted averages of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional centers.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of April 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 8th April.	Sunday, 9th April.	Monday, 10th April.	Tuesday, 11th April.	Wednesday, 12th April.	Thursday, 13th April.	Friday, 14th April.	Number of rainy days.	of rainfall inches.				
OCHIA	Pooree	Pooree	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	83.09	83.09
		Khurdah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.91	80.91
		Banpur	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	78.03	78.03
		False Point	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	77.83	77.83
		Gop	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?
	Outback	Salipore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?
		Pipli	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?
		Jagatsingapore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	76.19	76.19
		Banki	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.44	80.44
		Outback	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	77.58	77.58
	Balasore	Kendrapara	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	79.61	79.61
		Jajpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.43	80.43
		Dharmasala	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.10	80.10
		Salipore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	78.78	78.78
		Salipore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?
SOUTH-WEST BENGAL.	Midnapore	Chandbali	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	86.71	86.71
		Bhadrach	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.91	80.91
		Borah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	87.86	87.86
		Balasore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.40	80.40
		Jellapore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	84.48	84.48
	24-Pergunnah	Roripodah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	86.25	86.25
		Central	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	87.88	87.88
		Saugor Island	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	87.07	87.07
		Tumlook	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.50	80.50
		Midnapore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	87.73	87.73
SOUTH-WEST BENGAL.	Diamond Harbour	Ghatat	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	84.89	84.89
		Kalyakaty	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.77	80.77
		Garbatte	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	81.08	81.08
		Diamond Har-	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?
		bour	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	84.40	84.40
	Howrah	Canning Town	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.12	80.12
		Alipore Jail	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.48	80.48
		Barrackpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	82.01	82.01
		Dum-Dum	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	85.80	85.80
		Barnet	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.57	80.57
	Hooghly	Bosehat	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.04	80.04
		Howrah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.47	80.47
		Mohesra	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.19	80.19
		(Ooleberia.)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.11	80.11
		Hooghly	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.46	80.46
Bardwan	Quila	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	81.84	81.84	
	Bardwan	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.00	80.00	
	Quila	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.01	80.01	
	Manogunge	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.97	80.97	
	Manur	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	84.23	84.23	
Bankura	Bankura	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	81.00	81.00	
	Bishnupore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.43	80.43	
	Mahara	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.10	80.10	
	Khatra	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.81	80.81	
	Indas	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.80	80.80	
	Kotalpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	81.01	81.01	
	Anda	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.84	80.84	
	Gangajalghati	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.84	80.84	
	Salipore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.80	80.80	
	Senamukhi	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.79	80.79	
Bardhaman	Mh. Scory	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.05	80.05	
	Alampore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.10	80.10	
	Rampore Haul	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.18	80.18	
	Naipore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.73	80.73	
	Murad	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.57	80.57	
Medinipur	Ranaghat	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.43	80.43	
	Kahnaghat	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.13	80.13	
	Chooatanga	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.61	80.61	
	Meherpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.73	80.73	
	Koonthia	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.78	80.78	
Kharai	Gathira	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.03	80.03	
	Baghat	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.67	80.67	
	Kharai	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.48	80.48	
	Nakpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.13	80.13	
	Kampal	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	?	?	
Jessore	Narail	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.58	80.58	
	Jessore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.81	80.81	
	Jhaidah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.32	80.32	
	Magoorah	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.77	80.77	
	Bongong	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.05	80.05	
Meerutabad	Kandi	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.04	80.04	
	Berhampore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.88	80.88	
	Lathach	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.35	80.35	
	Atmargunge	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.13	80.13	
	Jungpore	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.40	80.40	
	Talgola	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.35	80.35	
	Jagunja	0.11	0.11	0.11	0.11	0.11	0.11	0.11	11	0.11	0.11	0.11	80.44	80.44	
	Akharganj	0.11	0.11	0.11	0.11	0.11	0.11								

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of April 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 4th April.	Sunday, 5th April.	Monday, 6th April.	Tuesday, 7th April.	Wednesday, 8th April.	Thursday, 9th April.	Friday, 10th April.	Number of rainy days.	of Rainfall week.				
EAST BENGAL.	Gouraudhi	Gouraudhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	68.04	?
		Baughal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	93.19	?
	Noakhali	Noakhali	...	...	0.06	...	...	...	...	1	0.06	0.06	1.33	105.77	118.01
		Faridpur	...	...	...	...	0.13	...	...	1	0.13	0.13	1.39	81.77	118.19
		Barisal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	87.35	?
	Farrukabad	Farrukabad	...	...	0.13	...	...	...	...	1	0.13	0.13	0.1	63.76	68.25
		Goalundo	...	0.07	...	...	0.07	...	...	2	0.14	0.14	0.73	64.73	81.34
	Dacca	Mudshigunge	...	0.23	...	...	...	...	...	1	0.23	0.23	1.04	69.00	70.10
		Dacca	...	1.32	...	...	...	0.16	...	2	1.48	1.48	1.75	84.54	83.71
		Narsingdi	...	0.22	...	...	...	...	...	1	0.22	0.22	1.00	82.43	83.07
		Manikganj	...	...	...	...	...	0.08	...	1	0.08	0.08	1.06	71.44	84.22
		Joydebpore	...	0.13	...	...	...	1.45	...	2	1.58	1.58	?	70.84	?
	Hill Tipperah	Agartala	...	...	...	...	...	...	...	Nil	Nil	Nil	1.30	47.16	68.30
		Gumilla	...	0.05	0.08	...	...	0.13	...	3	0.21	0.21	1.40	63.67	82.14
		Chandpur	...	...	...	...	...	1.70	...	1	1.80	1.80	1.09	84.37	80.02
		Naikunthia	...	0.08	...	...	...	0.23	...	2	0.31	0.31	1.43	85.50	80.13
		Ramchandrapur	...	...	...	...	...	...	...	1	0.20	0.20	?	61.07	?
		Narayanpur	...	0.10	...	...	...	...	...	2	0.50	0.50	?	80.89	?
		Dumkandi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	43.15	?
	Nymangab.	Kesha	...	...	0.40	...	...	...	...	1	0.40	0.40	?	72.73	?
		Keshab	...	...	...	...	...	...	...	1	...	...	?	...	...
		Kishoreganj	...	...	...	...	...	0.04	...	1	0.04	0.04	1.25	73.55	78.33
		Asia (Tangail)	...	1.21	...	...	...	0.47	...	2	2.18	2.18	0.74	66.23	58.89
		Nymangab	...	0.17	...	...	...	1.40	...	2	1.57	1.57	0.92	181.64	78.17
		Jamalganj	...	0.06	...	...	...	0.00	...	2	1.03	1.03	0.54	83.14	67.23
		Narail	...	0.34	...	...	...	0.01	...	2	0.35	0.35	0.39	131.45	76.04
	Pabna	Subarnachal	...	...	...	...	...	0.58	...	1	0.45	0.45	?	85.78	?
		Durgapore	...	...	...	...	...	0.40	...	1	0.40	0.40	?	122.52	?
		Sherepore	...	...	...	...	...	1.54	...	1	1.54	1.54	?	90.40	?
		Downing	...	0.29	...	...	...	...	...	1	0.29	0.29	?	67.35	?
		Pubna	...	0.03	...	...	...	...	...	1	0.03	0.03	0.78	80.94	57.23
		Saragpur	...	0.16	...	...	...	1.35	...	2	1.16	1.16	0.77	65.97	60.12
	Bogra	Sherepore	...	...	...	...	...	0.43	...	1	0.43	0.43	0.18	62.70	59.30
		Nowkhilla	...	...	...	...	...	0.04	...	1	0.04	0.04	0.38	64.61	80.04
		Nowra	...	...	...	...	...	0.04	...	1	0.04	0.04	0.71	72.36	62.50
		Panchlubi	...	...	...	...	...	...	...	Nil	Nil	Nil	0.12	60.79	57.20
	Rajshahi	Boulash	...	0.36	0.03	...	...	...	...	2	0.38	0.38	0.44	46.73	54.94
		Natore	...	0.23	...	...	...	...	...	1	0.23	0.23	0.47	84.30	87.12
		Nagpur	...	...	...	...	...	...	...	Nil	Nil	Nil	0.06	87.97	80.16
		Lalpur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	30.73	?
	Malda	Malda	...	...	...	...	...	...	...	Nil	Nil	Nil	0.30	60.80	63.15
		Chanchal	...	...	...	...	...	...	...	Nil	Nil	Nil	0.30	34.95	57.94
		Gajol	...	...	...	...	...	...	...	Nil	Nil	Nil	?	39.70	?
	Dinagore	Sibganj	...	...	...	...	...	...	...	Nil	Nil	Nil	?	82.11	?
		Mahadipore	...	...	...	...	...	...	...	Nil	Nil	Nil	0.01	83.91	57.74
		Churamon	...	...	...	...	...	...	...	Nil	Nil	Nil	0.03	83.61	83.61
		Raigunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0.21	81.62	69.17
		Dinagore	...	...	...	1.10	...	...	...	1	1.10	1.10	0.41	82.37	85.30
NORTH BENGAL.	Bangalore	Haleoghat	...	...	...	...	...	...	...	Nil	Nil	Nil	0.02	61.25	84.44
		Thakergang	...	...	...	...	...	...	...	Nil	Nil	Nil	?	87.91	?
		Bhawaniganj	...	...	...	...	...	...	...	Nil	Nil	Nil	0.03	88.00	80.28
		Gyabenda	...	...	...	...	...	...	...	Nil	Nil	Nil	0.07	78.04	70.89
	Jalpaiguri	Bangalore	...	...	...	...	...	...	...	2	1.91	1.91	0.79	83.51	70.37
		Kurigram	...	...	...	...	...	0.11	...	2	0.26	0.26	0.35	80.75	87.19
		Haldibari	...	...	...	...	...	...	...	1	0.20	0.20	?	80.75	?
		Ulupore	...	...	...	...	...	...	...	2	0.00	0.00	0.84	124.44	119.91
	Cooch Behar.	Jalpaiguri	...	...	...	...	...	0.06	...	2	0.06	0.06	?	124.44	119.91
		Alipore	...	...	...	...	...	0.30	...	2	0.30	0.30	?	124.44	119.91
		Fallakata	...	...	...	...	...	0.47	...	2	0.47	0.47	?	124.44	119.91
		Dakshin	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	Darjeeling Hill.	Rangpur	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	North Bengal.	Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	North Bengal.	Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	North Bengal.	Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	North Bengal.	Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
	North Bengal.	Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91
		Naikunthia	...	...	...	...	...	0.10	...	2	0.10	0.10	?	124.44	119.91

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of April 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st May 1889.	Average rain-fall from 1st May to date.
			Saturday, 4th April.	Sunday, 5th April.	Monday, 6th April.	Tuesday, 7th April.	Wednesday, 8th April.	Thursday, 9th April.	Friday, 10th April.	Number of rainy days.	Amount of rain-fall in week.				
NORTH BENGAL—continued.	Chhamparan...	Motihari	...	...	...	...	...	...	...	NO	NO	NO	0.15	75.83	44.70
		Hettiah	...	...	...	...	...	...	...	NO	NO	NO	0.15	55.69	40.10
		Bagaha	...	...	...	...	...	...	...	NO	NO	NO	?	70.44	?
		Barkurwa	...	...	...	...	...	...	...	NO	NO	NO	?	81.93	?
NORTH BENGAL	Saran	Gopalgunge	...	...	...	...	...	...	...	NO	NO	NO	0.04	55.73	44.81
		Nawan	...	...	...	...	...	...	...	NO	NO	NO	0.05	44.43	44.74
		Chuprah	...	...	...	...	...	...	...	NO	NO	NO	0.01	40.45	41.29
	Shahabad	Buzar	...	...	...	...	...	...	...	NO	NO	NO	0.00	47.74	34.35
		Dohror	...	...	...	...	...	...	...	NO	NO	NO	0.11	43.02	41.06
		Bhatnagar	...	...	...	...	...	...	...	NO	NO	NO	0.07	38.01	42.10
	Gya	Baswan	...	...	...	...	...	...	...	NO	NO	NO	0.11	30.31	41.54
		Arrah	...	...	...	...	...	...	...	NO	NO	NO	0.10	43.83	41.23
		Mohania	...	...	...	...	...	...	...	NO	NO	NO	?	?	?
	Patna	Aurangabad	...	...	...	...	...	...	...	NO	NO	NO	0.00	35.63	43.71
		Gya	...	...	...	...	...	...	...	NO	NO	NO	0.06	40.20	43.38
		Nowadsh	...	...	...	...	...	...	...	NO	NO	NO	0.10	30.72	41.17
		Jehanabad	...	...	...	...	...	...	...	NO	NO	NO	0.14	33.77	41.03
		Arwal	...	...	...	...	...	...	...	NO	NO	NO	?	34.40	?
		Daudnagar	...	...	...	...	...	...	...	NO	NO	NO	?	30.20	?
		Sherrynath	...	...	...	...	...	...	...	NO	NO	NO	?	17.04	?
CENTRAL AND SOUTH BENGAL.	Monghyr	Pakri Barawan	...	...	...	...	...	...	...	NO	NO	NO	?	31.90	?
		Patna	...	...	...	...	...	...	...	NO	NO	NO	0.04	31.60	42.70
		Dharpore	...	...	...	...	...	...	...	NO	NO	NO	0.06	40.53	42.10
	South Bhagalpore	Mehar	...	...	...	...	...	...	...	NO	NO	NO	0.10	41.30	42.06
		Bach	...	...	...	...	...	...	...	NO	NO	NO	0.03	30.03	41.04
		Barh	...	...	...	...	...	...	...	NO	NO	NO	?	35.04	?
	South Bhagalpore	Barh	...	...	...	...	...	...	...	NO	NO	NO	0.07	47.73	41.00
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.16	41.77	47.55
		Jamui	...	...	...	...	...	...	...	NO	NO	NO	0.13	39.38	44.21
	South Bhagalpore	Gopri	...	...	...	...	...	...	...	NO	NO	NO	?	30.10	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	43.32	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.15	45.04	43.20
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.04	34.04	44.00
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	40.97	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	?	?
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.03	30.07	42.80
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.00	40.74	44.53
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.10	73.43	44.61
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.32	57.10	50.03
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.12	60.42	53.08
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.00	50.00	50.30
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	50.07	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.06	30.34	43.40
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.13	40.81	45.67
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.15	30.96	44.73
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.00	48.40	44.55
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	32.43	?
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	47.00	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	40.05	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.22	44.73	42.50
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.21	36.23	44.55
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.10	35.12	44.01
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	34.20	?
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	44.70	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	39.45	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.16	40.84	43.91
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	60.83	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	67.37	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.17	44.40	41.23
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	0.10	31.05	40.34
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	46.32	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	45.45	?
	South Bhagalpore	Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	31.90	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	50.48	?
		Shahpur	...	...	...	...	...	...	...	NO	NO	NO	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 15th April 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 11TH
OF APRIL 1890.**

THE week commenced with high pressure, a generally rising temperature, and the usual wind circulation at this season of the year; that is, with westerly winds in Behar and south or south-westerly winds over the rest of the area except in the eastern part of North Bengal, where directions are east or north-east. Temperature was above the normal except in Orissa, Behar, and part of East Bengal, and excess was large in Chutia Nagpur, parts of South-West Bengal and North Bengal. Pressure continued to rise for the first two or three days, and over the whole of the northern half of the province was from 0.15 inch to 0.2 inch above the normal, the excess diminishing to about a tenth of an inch in South-West Bengal and Orissa. In the early part of the week a low-pressure area formed to the west of Behar, and easterly winds blew at all stations in North Bengal and Behar from Sunday the 6th till nearly the end of the week. Weather became unsettled over the greater part of the province, and though the effects were noticeable in the cloudy weather, very little rain fell. A few showers fell in East and South-West Bengal during the first half of the week, but none in Orissa or Behar. The low-pressure area moved slowly to the east, and pressure began to fall on Tuesday, the 8th, continuing rapidly on the 9th, and more slowly till the end of the week. On Wednesday, the 9th, there was a distinct depression over part of Behar and North Bengal with cyclonic circulation, westerly winds having recommenced at the western stations of Behar. Frequent showers fell in North Bengal on the two last days of the week, especially in Cooch Behar, Julpigoree, and the Darjeeling Hill district. Though pressure continued to fall on Thursday and Friday, the depression gradually filled up and moved slowly to the east, the most rapid fall on Friday being in the east of North Bengal. Moderately strong winds blew throughout the week in the north-west corner of the Bay and in South-West Bengal and Chutia Nagpur, while temperature falling in the lower districts rose in the north of the province during the first half of the week, and fell in North and East Bengal during the latter half as the rainfall area extended over these parts.

Pressure. As stated above, was from five-hundredths to two-tenths of an inch above the normal from the 5th to the 8th, after which the depression, moving gradually eastward, the excess diminished considerably, and by the end of the week there was a general small defect of about two-hundredths of an inch. The largest falls were on Wednesday the 9th and Friday the 11th, amounting on the former date to a tenth of an inch over the northern half of Bengal, and diminishing to about a twentieth of an inch in Orissa and East Bengal; on the 11th it was a tenth of an inch in North Bengal and about a twentieth elsewhere. The means for the week are all considerably above the normal, excess ranging from a twentieth of an inch in Chutia Nagpur to a tenth of an inch in North Bengal and North Behar.

Temperature. Has changed rather irregularly and rapidly, the change, as shown in the table below, being largest in the day temperatures. For some time both night and day temperatures have been considerably above the normal, but this week maximum temperatures are either below the normal or slightly in excess, while rather large excess continues at night, especially in the northern districts. At Cuttack and Calcutta there has been defect, during the day, of about 3°, while at Gya, Purneah, Hazaribagh, and Darjeeling minimum temperature has been above the normal by amounts ranging from 3.5° to 6.4°. The means for the larger divisions are slightly below the normal in Orissa and East Bengal, and above elsewhere, the largest difference being 2.5° in Chutia Nagpur.

The actual temperatures during the week, the range from day to night, and their variation from the normals are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 11th April 1890.

	Normal mean maximum temperature for the week ending 11th April.	Actual mean maximum temperature for the week ending 11th April 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 11th April.	Actual mean minimum temperature for the week ending 11th April 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 11th April.	Actual mean daily temperature for the week ending 11th April 1890.	Variation of actual mean from the normal.
Cuttack	101.7	94.3	-7.4	77.0	70.0	-7.0	89.4	82.2	-7.2
Calcutta	94.8	92.8	-2.0	75.0	70.7	-4.3	85.4	81.9	-3.5
Dacca	93.6	92.0	-1.6	73.3	73.5	+0.2	83.4	83.9	+0.5
Burdwan	100.7	100.1	-0.6	74.5	72.5	-2.0	87.6	84.8	-2.8
Patna	100.6	101.9	+1.3	71.7	75.2	+3.5	86.2	87.5	+1.3
Gya	102.3	103.5	+1.2	73.1	78.5	+5.4	87.2	91.1	+3.9
Purneah	97.0	96.0	-1.0	67.9	71.4	+3.5	82.4	85.7	+3.3
Hazaribagh	96.7	94.2	-2.5	70.0	73.8	+3.8	81.4	84.0	+2.6
Darjeeling	90.9	91.3	+0.4	64.9	69.8	+4.9	78.4	83.6	+5.2

Rainfall—Has been almost entirely confined to North, East and South-West Bengal. Scattered showers fell in South-West Bengal during the early part of the week, in East Bengal throughout the week, especially on Sunday and Thursday, and in Cooch Behar, Julpigoree, and the Darjeeling Hills there were some heavy falls on the last three days. The heaviest were 6 inches at Cooch Behar, 4·4 inches at Buxa, and 3·6 inches at Alipore Dooar. Elsewhere falls were generally under one inch. The average for North Bengal is 0·8 inch, East Bengal 0·5 inch, and South-West Bengal 0·18 inch, the first being half an inch in excess of the normal. Practically no rain fell in the other districts.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 11th of April 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	101·3	74·3	80·8	78·3	84·5	-0·3	Nil	0·30	-0·30	0·0	0·7	-0·7	Nil	0·30	64·00	55·00
South-West Bengal ...	107·5	84·3	97·0	76·7	87·8	+0·5	0·10	0·81	-0·15	0·5	0·7	-0·5	0·10	0·64	53·50	54·00
East Bengal	94·0	67·3	80·1	75·0	80·0	-0·4	0·20	0·73	-0·23	1·5	1·0	0	0·30	0·30	70·10	70·07
North Bengal	100·3	68·0	80·8	73·4	83·1	+0·6	0·81	0·30	+0·55	1·1	0·7	+0·4	0·61	0·44	74·07	73·00
North Behar*	103·3	80·0	97·1	70·7	83·0	+1·2	Nil	0·00	-0·05	0·0	0·3	-0·3	Nil	0·15	60·00	60·73
South Behar	107·5	87·7	101·7	74·0	86·3	+2·3	Nil	0·00	-0·05	0·0	0·3	-0·3	Nil	0·11	64·00	64·00
Chutia Nagpur	100·0	65·4	80·1	73·1	85·0	+2·5	Nil	0·11	-0·11	0·0	0·4	-0·4	Nil	0·13	64·10	51·51

* Chupra and Chyabasa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 15th April 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 6th to 12th April 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
April	6th	146.7	8.4	29.861	85.1	91.3	14.6	76.7	77.3	0.833	73.7	70	SSW and SSE	145	Nil	Chiefly clear, c.
	7th	149.7	7.7	29.866	84.5	92.5	17.3	75.2	76.8	0.820	73.3	70	SSW	109	"	Chiefly clear.
	8th	145.5	8.2	29.868	83.3	91.3	17.2	74.3	75.0	0.758	70.9	66	SSW	126	"	Chiefly clear.
	9th	146.6	9.2	29.797	86.7	90.7	12.9	77.6	78.6	0.864	75.5	73	SSW	243	"	Chiefly clear.
	10th	149.7	8.3	29.765	86.2	94.8	16.1	78.7	77.9	0.845	74.2	67	SW by S and SSW	240	"	Chiefly clear, c.
	11th	148.6	7.7	29.783	85.7	93.9	15.9	78.0	78.4	0.875	75.2	71	SSW	240	"	Chiefly clear, c.
	12th	148.0	7.4	29.764	85.3	92.6	14.3	78.3	78.1	0.866	74.9	72	SSW	266	"	Chiefly clear.

The mean pressure of the seven days ... 29.812

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.759

The total number of hours of bright sunshine ... 59.9

The maximum possible number of hours of sunshine ... 87.6

The mean temperature of the seven days ... 85.1

The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 84.7

The extreme variation of temperature ... 20.5

The maximum temperature ... 94.8

The highest velocity of the wind in one hour ... 19

The highest pressure of wind on one square foot ... Approximately 3

The mean relative humidity ... 70

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 68

The total fall of rain from 6th to 12th April 1890 ... Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.32

The total fall from 1st January to 12th April 1890 ... 1.10

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.39

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h. and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ dew; < lightning; o overcast.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, (GOVT. OF INDIA);

Calcutta, the 14th April 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of March 1890.

	Inches.	Days.
The mean pressure at 10 a.m. during the month	29.881	
The mean temperature at 10 a.m. during the month	84.0	
The highest temperature during the month	101.6	29th.
The lowest temperature during the month	64.4	8th.
The absolute range of temperature during the month	37.1	
The mean daily range of temperature during the month	20.8	
The greatest range of temperature in one day during the month	25.6	8th.
The mean 10 a.m. humidity during the month	61	
The mean 10 a.m. vapour tension during the month	.715	
The total rainfall of the month	0.46	
The greatest fall in 24 hours	0.21	10th.
The number of rainy days in the month	4	

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,

The 7th April 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 6th to 12th April 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
April 1890...	6th	29.910	84.9	92.5	15.2	77.3	88.1	79.0	.870	76.0	65	Nil.
"	7th	29.899	84.4	93.4	17.2	75.8	89.6	78.5	.860	74.0	63	"
"	8th	29.951	83.9	93.0	18.2	74.8	88.6	75.5	.840	74.0	63	"
"	9th	29.878	85.8	92.8	14.0	78.8	88.1	79.6	.843	75.8	64	"
"	10th	29.843	87.4	96.0	17.2	78.8	90.6	81.0	.800	77.0	66	"
"	11th	29.813	86.8	95.5	17.5	78.0	90.1	82.0	.805	78.8	70	"
"	12th	29.810	86.4	94.2	15.6	78.6	89.8	81.5	.806	78.2	69	"

The mean 10 a.m. pressure of the seven days ... 29.881

The mean temperature of the seven days ... 85.7

The extreme variation of temperature ... 21.2

The maximum temperature ... 96.0

The mean 10 a.m. relative humidity of the seven days ... 66

The total fall of rain from 6th to 12th April 1890 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 14th April 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 29th March 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 29th March 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 19·8 per 1,000 of the aggregate population of those towns which is 1,061,574. This rate is 2· lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1886 and 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	20·3	19·3	20·1	19·7	22·7	21·3	19·8

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	6th March 1890.	13th March 1890.	20th March 1890.	27th March 1890.		6th March 1890.	13th March 1890.	20th March 1890.	27th March 1890.
Rardwan	29·0	18·3	24·4	24·4	Narainpur	37·3	33·1	29·0	16·6
Midnapore	24·8	20·1	17·0	20·3	Chittagong	11·7	14·1	11·7	9·4
Hughli and Chinsurah	21·2	19·7	24·6	23·0	Comilla	26·2	20·1	24·3	21·1
Serampore	23·0	24·3	21·0	41·2	Patna	7·8	15·9	8·8	13·3
Cuttack	18·9	28·3	47·3	28·3	Gya	16·4	19·1	22·3	19·1
Howrah	19·5	26·3	21·3	19·5	Arrah	5·3	22·9	30·2	23·9
Bali	10·5	7·0	21·1	17·9	Muzaffarpore	13·4	14·8	25·2	13·4
Kishnaghar	20·8	22·7	11·4	24·6	Dumraon	37·9	15·7	25·2	18·1
Ranaghat	18·0	6·0	41·0		Chupra	10·1	16·1	21·1	14·1
Bansipore	0·0	21·0	25·0	29·0	Bhagalpur	15·4	20·8	16·3	13·6
Jessore	0·1	24·3	36·6	18·4	Monohar	23·4	31·4	30·7	20·2
Serampore Beaulah	18·6	47·2	31·4	21·0	Purneah	27·7	20·8	3·5	27·7
Darjiling	22·2	14·8		37·0	Poori	27·3	14·7	33·6	29·4
Dacca	13·6	9·7	22·4	20·8					

It will be seen that last week the highest birth-rate was returned from Serampore (41·2) and the lowest from Chittagong (9·4). No births were registered during the week in Ranaghat town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23·1 per 1,000 of the population. The rate of the week is 1·3 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	24·6	22·4	23·3	21·0	23·7	24·4	23·1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	6th March 1890.	13th March 1890.	20th March 1890.	27th March 1890.		6th March 1890.	13th March 1890.	20th March 1890.	27th March 1890.
Rardwan	27·5	24·4	22·0	24·4	Narainpur	59·0	8·3	4·1	8·3
Midnapore	20·1	20·3	40·0	28·7	Chittagong	7·0	9·4	11·7	7·0
Hughli and Chinsurah	27·9	21·3	25·0	27·7	Comilla	27·8	23·9	43·4	46·1
Serampore	21·4	27·3	27·1	17·7	Patna	9·4	11·7	17·3	17·5
Cuttack	26·1	28·3	27·4	21·3	Gya	20·4	45·0	41·0	66·3
Howrah	22·3	22·3	21·8	14·3	Arrah	13·2	11·0	14·4	10·7
Bali	14·0	17·8	2·0	24·6	Muzaffarpore	13·4	14·0	4·9	17·0
Kishnaghar	15·9	9·8	11·4	5·7	Dumraon	16·5	15·7	15·7	25·4
Ranaghat	35·9	18·0	20·9	24·0	Chupra	4·0	10·1	14·1	11·1
Bansipore	3·8	21·0	14·0	8·9	Bhagalpur	10·0	15·4	18·1	18·9
Jessore	24·5	30·6	61·2	12·1	Monohar	22·4	19·0	14·5	9·0
Serampore Beaulah	24·2	21·0	20·3	21·0	Purneah	17·3	2·8	27·7	24·6
Darjiling	37·0	37·0	44·5		Poori	26·5	100·7	68·3	29·9
Dacca	14·3	11·0	18·2	22·7					

It will be seen that last week the highest mortality occurred in the town of Gya (66·3) and the lowest in Kishnaghur (5·7).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Small-pox.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Comillah ...	16·4	Poori ...	16·8	Gya ...	46·1	Gya ...	16·7
Dacca ...	7·8	Patna ...	1·6	Darjiling ...	29·6	Midnapore ...	18·9
Midnapore ...	7·7			Purneah ...	24·2	Burdwan ...	13·7
Howrah ...	4·6			Hughli and		Poori ...	12·6
Gya ...	4·1			Chinsurah ...	21·2	Bhagulpore ...	11·8

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 2·4 from cholera, against 2·8 per 1,000 in the preceding week; 1·1 from small-pox, against ·9; 10·6 from fever, against 9·9; 1·8 from bowel-complaints, against 2; ·6 from injury, against ·4; and 6·7 from other causes, against 5·4 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	34·5	Christians ...	14·9	Under 1 year	182·3
Females ...	21·6	Hindus ...	22·9	1 and under 5 years	24·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	113	Mahomedans ...	24·0	5 " 10 "	13·7
				10 " 15 "	9·7
				15 " 20 "	17·8
				20 " 30 "	12·6
				30 " 40 "	12·8
				40 " 50 "	19·9
				50 " 60 "	28·2
				60 years and upwards	65·6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GRIGG, *Imp. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 11th April 1890.

MORTALITY ACCORDING TO—

Age.

DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS ABOVE—				RATIO PER 1,000 OF POPULATION PER ANNUM.						DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Barisal	Bardwan	1	30	4	27.9	10.3	10.1	3	6	7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 11th April 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 12th April 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 12TH APRIL 1890.			WEEK ENDING SATURDAY, THE 13TH APRIL 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	279	55,325	892	200	60,000	971
Jute	30	16,300	312	10	4,075	65
Firewood	86	39,500	604	89	86,130	634
Other articles	67	1,80,485	2,705	612	1,47,775	2,200
Total	1,052	2,97,510	4,513	920	2,48,680	3,783

Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of
January 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	3,046	95	4,090	7	4,081	4,703		622
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—in bales and bundles	230	1	180	1	237	181	76	
b.—in boxes								
2.—Indian—								
a.—in bales and bundles								
b.—in boxes								
Cereals—								
1.—Rice	10	75	2	136	85	158		73
2.—Others	47	37	9	91	84	100		16
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Unacrowed		643		552	643	552	91	
2.—Gunny bags and cloth	10	1	1		17	1	16	
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	62	19	46	36	81	104		23
5.—Tin								
6.—Others								
Oils—								
1.—Kerosene	94		86		94	86	8	
2.—Others	126		72		126	72	54	
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or groundly								
4.—Niger	180	24	20	23	186	43	143	
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
1.—Hotel-nuts	9	573	2	43	577	48	533	
2.—Others	111	123	115	142	234	257	23	
Railway plant and rolling-stock	47	35	29	65	78	85	7	
Salt	211		203		211	203	8	
Sugar—								
1.—Dressed	23	170	6	677	103	683	400	
2.—Undressed	18	19	15	20	37	34	3	
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	643	197	304	315	640	670	30	
2.—Manufactured								
Total	5,600	2,082	5,841	2,220	7,683	8,061	914	1,378

Comparative Statement of traffic, Bengal Central Railway, for January 1890.

	INCREASES.	Tons.
Oil-seeds		142
Due to ordinary fluctuations of traffic.		
Hotel-nuts		532
This increase was contributed by the B C Flotilla.		
	DECREASES.	Tons.
Sugar		400
Due to decreased output by the mills at Gobardanga and Jhikargachi.		

CALCUTTA, the 11th April 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th April 1890, on 1,625½ miles open

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	250,000	Rs. A. P. 2,10,067 13 0	Mds. 27,55,700 10	Rs. A. P. 6,40,008 11 0	Rs. A. P. 90,110 3 0	9,78,274 13 9	70,122½	1,05,601½	175,724½
Or per mile of railway ...	207 3 2	.....	.....	4 9 8 11	13 3 6	599 15 0	.....	.....	.....
For previous 13 weeks of half-year ...	2,353,250	17,62,953 4 0	2,39,07,300 20	73,40,104 12 0	2,57,354 12 0	1,10,00,000 12 0	834,833½	1,323,000	2,000,761½
Total for 14 weeks ...	2,603,250	20,00,021 1 0	2,66,63,000 20	75,97,211 7 0	2,77,665 1 0	1,20,00,000 12 0	898,927½	1,328,000	2,226,927½
COMPARISON.									
Total for corresponding week of previous year ...	265,700	2,40,000 12 11	28,00,000 20	8,20,000 1 0	10,771 13 3	9,00,000 12 1	60,000	90,000	150,000
Per mile of railway corresponding week of previous year ...	.....	226 10 11	.....	412 15 0	12 4 10	561 14 0	.....	.....	.....
Total to corresponding date of previous year ...	2,672,245	22,12,000 10 1	2,88,00,000 20	84,20,000 0 0	2,14,000 2 2	1,20,70,000 4 2	900,000	1,340,000	2,240,000

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,625½	Rs. 2,10,067	Rs. 1,322½	1,625½	Rs. 2,10,067	Rs. 1,322½	1,625½	Rs. 2,10,067	Rs. 1,322½	1,625½	Rs. 2,10,067	Rs. 1,322½	Rs. 2,10,067	Rs. 1,322½

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 6th April 1890, on 57½ miles open

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	16,333	Rs. A. P. 9,109 9 0	Mds. 62,303 30	Rs. A. P. 4,675 12 0	Rs. A. P. 37 2 0	12,400 8 0	1,000	704	1,704
Or per mile of railway ...	283	164 7 7	1,106 30	81 12 2	0 10 8	214 16 8	.....	.....	.....
For previous 13 weeks of half-year ...	147,620	1,04,077 1 0	16,00,100 20	124,203 0 0	1,005 12 0	1,34,935 1 0	22,413½	8,800	30,990
Total for 14 weeks ...	163,953	1,04,077 1 0	16,00,100 20	124,203 0 0	1,005 12 0	1,34,935 1 0	22,413½	8,800	30,990
COMPARISON.									
Total for corresponding week of previous year ...	17,022	9,744 3 4	64,000 10	3,200 2 0	60 7 0	12,112 12 10	1,014	700	1,714
Per mile of railway corresponding week of previous year ...	298	170 8 8	700 30	57 11 11	1 2 0	212 3 11	.....	.....	.....
Total to corresponding date of previous year ...	207,010	1,10,000 2 0	16,00,000 0	121,177 12 0	1,200 4 0	1,40,000 5 0	25,000	8,075	33,075

* Added number of passengers 1,365 and Rs. 705 }
 † Added mounds 40,807 " 427 } on account of difference between the approximate and audited returns to week ended 22nd February 1890.
 ‡ Deducted " 54 " 54 }
 § Added Mds. 223-10 and Rs. 3 5-12-0 }
 || Into " 267-0-0 } on account of supplemental return to 31st March 1890.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 12,112	Rs. 210	57½	Rs. 12,112	Rs. 210	57½	Rs. 12,112	Rs. 210	57½	Rs. 12,112	Rs. 210	Rs. 12,112	Rs. 210

* Added Rs. 923 on account of supplemental return to 31st March 1890.
 † Added Rs. 1,835 on account of supplemental return to 31st December 1889 and Rs. 1,143 on account of difference between the approximate and audited figures to week ended 22nd February 1890.

TARKESUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 5th April 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	26,810	Rs. A. P. 7,002 3 0	Mds. s. 13,700 0	Rs. A. P. 420 3 0	Rs. A. P. 12 10 0	Rs. A. P. 7,002 15 0	231	107	338
Or per mile of railway ...	1,135	316 11 8	585 0 0	18 15 9	0 9 1	307 4 1	.....	.....	.....
For previous 13 weeks of half-year ...	177,908	72,373 13 0	71,003 20	10,011 10 0	215 0 0	79,119 7 0	11,900	1,304	13,204
Total for 14 weeks ...	303,418	79,374 15 0	2,10,837 30	7,100 13 0	147 10 0	86,233 6 0	12,131	1,311	13,442
COMPARISON.									
Total for corresponding week of previous year ...	23,010	7,397 1 6	9,918 30	347 5 0	12 5 3	7,396 6 3	911	87	998
Per mile of railway corresponding week of previous year ...	.....	327 15 4	.....	13 9 9	0 9 9	344 1 9	.....	.....	.....
Total to corresponding date of previous year ...	310,732	81,733 8 8	1,37,006 10	84,900 11 0	104 0 9	87,737 4 3	12,034	804	12,838

* Added No. of passengers 6,735 and Rs. 4,370 0 0 on account of difference between the approximate and audited returns to week ended 22nd February 1890.
† Ditto Mds. 605 " 44 0 0
‡ Deducted " " 24 0 0
§ Added " " 1 8 0 on account of supplemental return to 31st March 1889.

Approximate Statement of gross receipts of the Tarkesur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 31ST MARCH 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
23½	7,002	306	23½	7,396	317	33½	2,66,547	340	33½	2,64,000	346	.....	3,657

* Added Rs. 1 on account of supplemental return to 31st March 1889.
† Added Rs. 55 on account of supplemental return to 31st December 1889 and Rs. 4,330 on account of difference between the approximate and audited figures to week ended 22nd February 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 29th March 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	184,400	Rs. A. P. 26,640 0 0	Mds. s. 5,65,240 0	Rs. A. P. 94,410 0 0	Rs. A. P. 27,970 0 0	Rs. A. P. 1,97,970 0 0	23,116	97,163	50,279
Or per mile of railway ...	246	115 0 0	761 0 0	115 0 0	715 0 0	261 0 0	.....	.....	.....
For previous 13 weeks of half-year ...	1,822,000	9,23,343 0 0	63,08,140 0	12,47,613 0 0	2,33,686 0 0	26,09,653 0 0	267,420	257,003	524,423
Total for 14 weeks ...	2,006,400	10,23,983 0 0	74,74,980 0	14,36,023 0 0	2,51,006 0 0	27,07,022 0 0	290,536	284,006	574,542
COMPARISON.									
Total for corresponding week of previous year ...	180,021	26,088 0 0	5,30,048 0	75,000 0 0	26,733 0 0	1,23,000 0 0	21,400	23,404	44,804
Per mile of railway corresponding period of previous year ...	240	120 0 0	800 0 0	117 0 0	714 0 0	251 0 0	.....	.....	.....
Total to corresponding date of previous year ...	1,916,638	10,20,013 0 0	64,40,843 0	11,22,970 0 0	2,33,801 0 0	23,81,266 0 0	277,103	219,441	496,544

* Audited up to week ending 5th February 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 30TH MARCH 1890.			RECEIPTS FOR WEEK ENDING 30TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
673	1,20,500	277	747	1,97,070	263	673	1,06,20,055	206	726	1,14,76,765	200	8,55,123	.....

* Audited up to week ending 5th February 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 29th March 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	24,010	9,600 0 0	73,310 0	4,310 0 0	80 0 0	14,230 0 0	2,738	1,987	4,725
Or per mile of railway ...	192	76 8 0	586 0	34 4 0	.....	114 0 0	.....	.....	.....
For previous 12 weeks of half-year ...	331,000	1,18,608 0 0	8,19,380 0	25,404 0 0	680 0 0	*1,84,072 0 0	43,227	22,089	65,316
Total for 13 weeks ...	355,010	1,28,208 0 0	8,92,690 0	29,714 0 0	710 0 0	1,95,322 0 0	45,965	24,076	70,041
COMPARISON.									
Total for corresponding week of previous year ...	23,862	10,546 0 0	60,880 0	4,037 0 0	20 0 0	14,912 0 0	2,738	1,980	4,718
Per mile of railway corresponding period of previous year ...	191	85 4 0	486 0	32 4 0	.....	119 0 0	.....	.....	.....
Total to corresponding date of previous year ...	371,987	1,28,176 0 0	7,29,220 0	28,174 0 0	4,364 0 0	1,75,624 0 0	47,548	24,677	72,225

* Audited up to week ending 6th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 30TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 29TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 29TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,912	119	125	14,230	114	125	7,21,769	111	125	7,21,778	112	8,004	.....

* Audited up to week ending 6th February 1890.

DACCRA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th March 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	29,730	9,190 0 0	19,010 0	1,980 0 0	80 0 0	11,160 0 0	2,400	684	3,084
Or per mile of railway ...	346	107 0 0	221 0	23 0 0	1 0 0	130 0 0	.....	.....	.....
For previous 12 weeks of half-year ...	301,300	73,769 0 0	2,39,240 0	22,948 0 0	2,247 0 0	*1,68,064 0 0	29,000	8,480	37,480
Total for 13 weeks ...	331,030	82,969 0 0	2,58,280 0	25,196 0 0	2,327 0 0	1,70,124 0 0	31,178	9,164	40,342
COMPARISON.									
Total for corresponding period of previous year ...	18,927	5,254 0 0	12,216 0	740 0 0	206 0 0	6,200 0 0	2,400	684	3,084
Per mile of railway corresponding period of previous year ...	197	61 0 0	140 0	9 0 0	3 0 0	73 0 0	.....	.....	.....
Total to corresponding date of previous year ...	301,063	68,221 0 0	1,60,587 0	14,202 0 0	2,128 0 0	79,806 0 0	31,000	8,480	40,087

* Audited up to week ending 6th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 30TH MARCH 1889.			RECEIPTS FOR WEEK ENDING 29TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH MARCH 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 29TH MARCH 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,200	73	86	11,160	130	86	3,03,890	86	86	*4,05,882	91	1,02,102	.....

* Audited up to week ending 6th February 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 5th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	3,088	Rs. A. P. 1,083 0 0	MDS. S. 9,191 0	Rs. A. P. 889 0 0	Rs. A. P. 11 0 0	Rs. A. P. 1,083 0 0	509	294	773
Or per mile of railway ...	112	40 0 0	327 0	33 0 0	.....	62 0 0	.....	.....	.....
For previous 13 weeks of half-year ...	42,488	16,320 0 0	1,80,516 0	11,094 0 0	1,374 0 0	27,768 0 0	6,599	4,897	13,496
Total for 13 weeks ...	45,576	16,403 0 0	1,90,007 0	11,083 0 0	1,385 0 0	29,471 0 0	6,908	5,431	12,799
COMPARISON.									
Total for corresponding week of previous year ...	3,227	1,577 0 0	8,446 0	887 0 0	12 0 0	1,477 0 0	509	306	817
Per mile of railway corresponding week of previous year ...	118	47 0 0	300 0	34 0 0	1 0 0	62 0 0	.....	.....	.....
Total to corresponding date of previous year ...	46,327	16,343 0 0	1,76,276 0	10,801 0 0	1,022 0 0	29,677 0 0	6,980	4,906	13,673

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 5TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
27½	Rs. 1,477	Rs. 62	27½	Rs. 1,083	Rs. 68	27½	Rs. 41,437	Rs. 63	27½	Rs. 41,303	Rs. 64	.....	Rs. 235

a Average for 6 and 6 days has been shown.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 5th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	48,828	Rs. A. P. 18,797 0 0	MDS. S. 2,43,138 0	Rs. A. P. 28,172 0 0	Rs. A. P. 2,792 0 0	Rs. A. P. 49,671 0 0	9,882	8,136	13,718
Or per mile of railway ...	179	68 0 0	887 0	103 0 0	2 0 0	175 0 0	.....	.....	.....
For previous 13 weeks of half-year ...	611,547	2,55,922 0 0	23,87,751 0	3,84,744 0 0	40,982 0 0	6,80,628 0 0	69,919	121,339	191,258
Total for 13 weeks ...	660,185	2,74,520 0 0	26,40,589 0	4,12,916 0 0	43,154 0 0	7,38,690 0 0	72,601	129,475	204,276
COMPARISON.									
Total for corresponding week of previous year ...	47,163	18,410 0 0	1,52,927 0	19,290 0 0	4,623 0 0	42,928 0 0	8,341	5,980	16,771
Per mile of railway corresponding week of previous year ...	172	67 0 0	560 0	71 0 0	7 0 0	145 0 0	.....	.....	.....
Total to corresponding date of previous year ...	579,827	2,22,226 0 0	18,78,687 0	1,83,076 0 0	44,349 0 0	4,48,690 0 0	70,767	75,675	146,442

a Steam-boat earnings included in calculating "Total earnings per mile of Railway."
 b Includes Rs. 1,856 as "Sundry receipts."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 5TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
27½	Rs. 42,828	Rs. 186	27½	Rs. 49,671	Rs. 183	27½	Rs. 430,281	Rs. 183	27½	Rs. 433,460	Rs. 180	.....	Rs. 317

a Average for 6 and 6 days has been shown here.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 23, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE CHEMICAL EXAMINER'S REPORT FOR 1889.

RESOLUTION.

MEDICAL.

Dated Calcutta, the 13th April 1890.

READ—

A letter from the Inspector-General of Civil Hospitals, No. 3354, dated the 5th March 1890, forwarding the Report of the Chemical Examiner for the year 1889.

Read also—

The Report for 1888 and the Resolution recorded by Government on it.

The following table shows the general nature of the work done during 1889 as compared with 1888:—

		Medico-legal.	1888.	1889.
Human viscera tested for poison	199	209
Animal ditto for do.	122	144
Fowls' ditto for do.	2	1
Substances suspected to be or to contain poison, including cattle poison	591	663
Articles tested for blood stains	246	299
Ditto for seminal stains	61	62
Human hair	4
Asses' hair	1
Muscular tissue	1

Articles tested for purity and quality.

Potable water	...	61	74
Petroleum and inflammable oils	...	268	292
Lime juice	...	9	25
Opium confiscated	...	52	47
Opium from the Board of Revenue, Lower Provinces	...	6	13
Salt	...	186	57
Ghee	...	37	54
Spirit for deleterious adulterations	...	18	63
Spirit determinations for the Collector of Customs, Calcutta	...	172	255
Small Arms Ammunition Factory, Dum-Dum	...	378	488
Fort William Arsenal	...	4	5
Medical Store Department	...	1	7
Telegraph Store Department	...	10	12
Commissariat Department	...	117	120
Other Departments	...	78	81
Total	...	2,613	2,977

The above figures show that the work of the Chemical Examiner is increasing in every direction. Since 1880-81 there has been an increase of 1,507 in analyses, or an increase of over 100 per cent. In addition to the analyses above enumerated, nine opinions on technical questions were submitted during the year under report, and 31 applications for leave to file specifications for patent rights were reported on for the Government of India. Some work was also done for the Department of the Collector of Customs, Calcutta, in connection with the introduction of the new Excise rules for determining the real alcoholic strength of imported spirits. Two hundred and nine human viscera were examined for poison, as against 199 in 1888. Poison was detected in 48·3 per cent. of these cases, as against 44·2 in the previous year. In 50 cases opium was found, and in 29 cases arsenic, and there were 22 cases in which traces of other poisons were discovered. In commenting on the large number of cases in which the two first-named poisons are found, Dr. Warden remarks: "These figures very clearly demonstrate that opium and arsenic, the two most commonly known poisonous drugs, are still the favourite agents for suicidal and homicidal purposes, respectively, while the more easily procurable, and in many instances as deadly, vegetable poisons are comparatively still very little used in spite of the advance of civilization."

The following remarks of the Chemical Examiner in connection with the examination of spirit for deleterious adulterations are worthy of special note: "Sixty-three samples were examined, compared with 18 during the previous year. The object of the examination was to ascertain whether or not noxious drugs were added to increase the intoxicating effects of the spirit. The following drugs were especially sought for:—Indian hemp, opium, nux-vomica, datura, aconite, and in some cases tobacco. In every case negative results were obtained. Bearing in mind that some of the drugs supposed to be used are highly toxic, and not usually credited with producing intoxicating effects, and having very distinctive and unpleasant tastes, and also remembering that others are costly, it seems highly probable that the idea regarding the adulteration of country liquor with noxious drugs is based on incorrect deductions made by persons not possessed of any technical knowledge. There is no doubt that drugs are added in some cases to the contents of the *fermenting vats*, as, for example, nux-vomica seeds in *bakur pills*, and the incorrect conclusion has been arrived at that the distilled spirit must also contain the same drugs. But this inference, as I pointed out some years ago, is founded on a misconception. The active principles of such drugs as aconite, datura, nux-vomica, Indian hemp are non-volatile, and, though the fermented liquid may be saturated with such poisons, the distillate under ordinary conditions will be harmless." These remarks go far to prove that the popular opinion that country liquors are rendered noxious by the infusion of drugs of the nature of datura, hemp, aconite, and the like, is founded on an altogether mistaken basis.

The thanks of the Lieutenant-Governor are due to Dr. Warden for his report, and for the good work he and his assistants have done during the year.

The able and exhaustive report on tube wells submitted by the same officer has already been dealt with in the Sanitation Department of this Office. It is likely to prove of great value in forwarding the cause of sanitary reform.

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE EMBANKMENT REPORTS FOR 1888-89.

No. 6957.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 21st April 1890.

RESOLUTION.

READ—

The embankment reports for 1888-89.

The budget grant for the maintenance of embankments in Bengal for the year 1888-89 was :—

			Rs.
Government embankments	...	...	6,31,928
Tucaevee embankments under contract	...	...	3,15,072
Total	...	...	9,47,000

The expenditure during the year was as follows :—

Government embankments	...	...	6,53,405
Tucaevee embankments under contract	...	...	1,29,796
Total	...	...	7,83,201

2. The accompanying statement shows the lengths of embankments in each civil division and district in Bengal other than Orissa. The D Schedule embankments are maintained at Government expense, and those classed as tucaevee are maintained at the cost of zemindars, either under contract for a fixed term of years, or under annual estimates for repairs. The expenditure on the latter is shown in the remarks column.

3. The total length of D Schedule embankments and the cost of maintaining the same, exclusive of charges for establishment and tools and plant, during the year under review, as compared with those of the previous year, are shown below :—

Year.	Length.		Cost.
	Miles.	Feet.	
1888-89	1,127	387	2,98,623
1887-88	1,127	387	2,54,129

The average cost of maintenance per mile has increased from Rs. 225.47 in 1887-88 to Rs. 264.95 in 1888-89.

The chief cause for this increase in expenditure is to be found in the severity of the inundations with which the embanked districts of the Presidency and Burdwan Divisions were visited after the heavy rainfall of August 1888. The readings recorded on the gauges of the chief rivers, e.g., the Rupnarain, Damuda and Bhagirutti, are but a few inches lower than the highest recorded

in any previous year. In the districts of Burdwan, 24-Pergunnahs, Moorshedabad, Hooghly and a portion of Midnapore numerous breaches of the embankments took place, and the outlay incurred in closing these and in retiring the embankments at threatened points was heavier than usual. Of work of a more special character which has been carried out may be mentioned the raising of portions of the left Damuda embankment in Burdwan; and in the Hooghly district, the remodelling of the embankments of the Madaria khali and of the Damuda, the raising of five miles of the left embankment of the Rupnarain and the construction of a new retired line at Malloek, on the same river, the encroachments of which at this point have been a source of heavy outlay for some years past.

4. The embankments of the Burdwan estate, which are included in Schedule D, were maintained at a cost of Rs. 1,38,819, against Rs. 91,156 in the year previous, or at an increase of Rs. 47,163.

5. The length of tuccavee embankments under contract is now 478 miles 4,942 feet. The small addition of 136 feet over the length shown in the last return is due to the taking over of the Rajbundibund in Midnapore. The average mileage rate of maintenance has risen for 242 miles of tuccavee embankment in the Midnapore district from Rs. 139.32 to Rs. 143.89; for 236 miles in the Patna Division the rate has fallen from Rs. 219.43 to 199.18. On the Gunduk embankments in the district of Chumparun the rate per mile has increased from Rs. 244.30 to Rs. 338.03. It appears from the report that though the Gunduk was at no period of the season in very high flood, yet that the persistent set of the river at various points on its left bank was such as to necessitate heavy expenditure in training and protective works, in order to hold the line of the embankment. The 120 miles of embankment on the Sarun bank of the Gunduk were maintained at the comparatively low rate of Rs. 158.82 per mile.

The losses and suffering caused in embanked districts of Lower Bengal by inundations through breaches in times of flood, and the more frequent occurrence each year of such breaches, in consequence of the deterioration of river channels where embankments exist, are subjects to which much attention has been paid throughout the year. The causes of the defective drainage in the southern portion of the district of Midnapore were investigated by a Committee of Enquiry appointed for that purpose; and a special survey division was organised to deal with the Damuda and Rupnarain rivers. In both these cases the difficulties are great on account of the gradual silting up of the natural drainage outlets of the country. The difficulty of this drainage question is yearly increasing rather than diminishing, but the matter is being carefully considered, and the Lieutenant-Governor trusts that some practical way of treating it may shortly be arrived at.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,

Secretary to the Govt. of Bengal,

P. W. Dept.

ACCOMPANIMENT TO BENGAL GOVERNMENT RESOLUTION No. 695I., DATED 21st APRIL 1890.

Lid of Embankments in Bengal, the property of Government and in charge of Government Officers, showing the length and cost of maintenance during the year 1888-89.

[illegible]

• This is the correct length of the Sukri bund and is 10 feet more than the length shown in previous year's return.

(a) The use of 100 feet of the Kapurthala road—vide Boral Government No. 11071, dated 26 July 1952.

(b) This is the length of the Jobi embankment and was not shown in previous year's return.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 19th April 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
Burdwan Divn.	1 Burdwan Culna April 19, '90	Nil 0-03	Weather—hot and occasionally windy. Cultivation very much retarded for want of rain. Prospects of <i>til</i> and sugarcane not good. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs.</i> Burdwan 17½ Culna 16 Cutwa 16½ Ranigunge 18 } per rupee. </div>
	2 Bankura .. 19, '90	0-77	Weather—much cooled down by the rain and storm of last evening. Rain will facilitate agricultural operations generally, and will do good to standing crops. Common rice 20 seers per rupee at Sudder and 19 seers at Bishenpore.
	3 Birbhum .. 19, '90	Nil	No crops on the ground. Price of rice 16 to 20 seers per rupee.
	4 Midnapur .. 19, '90	Nil	High wind and some cloud, but no rain reported anywhere. Weather cooler. Rain required for <i>boro</i> . Indigo doing well. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs.</i> Sudder 19 Contai 20 Tamluk 18 Ghatal 18 } per rupee. </div>
	5 Hooghly .. 19, '90	0-35	Weather—windy and cloudy. No crop on the ground. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs.</i> Sudder 18 Serampore 16 Jehanabad 16 } per rupee. </div>
	Howrah .. 19, '90	Nil	Weather—very hot days, but nights cool. <i>Boro dhan</i> much damaged for want of rain.
<i>Central Districts.</i>			
Presidency Divn.	6 24-Pergha April 22, '90	Nil	Weather—very hot. Strong southerly wind and slight shower at the end of the week. Rain much wanted. Sugarcane and <i>boro</i> paddy suffering. There was some rain yesterday (21st) afternoon, and this will much benefit the crops. Price of common rice 15 seers per rupee.
	7 Nudda ..	...	Report not received.
	8 Khoolna Begirhat .. 19, '90	0-69 0-17	Weather—hot in beginning of week, stormy during last two nights. <i>Boro</i> harvest going on with good outturn. Some rain has fallen in the Sudder and Begirhat subdivisions, but more is wanted.
	9 Jessore Narail .. 19, '90	1-60 1-00	Weather—hot and occasionally cloudy with strong wind. Rainfall of the 17th and 18th has been beneficial to the ploughing and sowing of early rice and jute. No crops on the field.
	10 Moorshedabad .. 19, '90	Nil	Weather—normal with dust storms. Lands are being prepared for <i>aus</i> rice.
Rajshahi Divn.	11 Dinagapur .. 19, '90	1-57	Weather—fairly cool with occasional showers. Sugarcane pressing completed; outturn estimated at 12 annas. Jute, sugarcane, and <i>dhadoi</i> are being sown. In Tankurmon rain wanted, otherwise prospects good. Price of rice at Sudder and Tankurmon 18 seers per rupee.
	12 Rajshahi .. 19, '90	2-06	Weather—very hot and dry during early part of week; since then cooler. Sowing of all crops, which was retarded owing to absence of rain, will now be taken in hand extensively in the Sudder subdivision. Rain much wanted elsewhere.
	13 Rungrur Nilphamari .. 19, '90	1-20 0-15	Daily storms of wind and rain cooling the air and laying the dust. Rain has been general, and has had a most beneficial effect on cultivation. Fields are now being ploughed for late rice, which, with jute, is being sown over large areas. Latest report from the south of district, however, shows that more rain is still useful there.
	14 Bogra .. 19, '90	Nil	Weather—somewhat. A storm on Thursday (17th) night. <i>Aus</i> rice and jute are being sown, and have germinated in some places. There are no standing crops. <i>Chenna</i> has been reaped, with an outturn of 16 annas. Common rice is selling at 18 seers per rupee.
	15 Pabna .. 19, '90	0-53	Partial clouds and slight rain. <i>Aus</i> , <i>ausa</i> and jute being sown. Recent rain has done good. Prices stationary.
	16 Darjeeling .. 18, '90	0-40	Weather—fair. <i>Dhadoi dhan</i> , <i>dhadoi</i> , and <i>murua</i> are being sown. Wheat and barley harvested. Prospects favourable.
	17 Calpigore .. 19, '90	0-06	Weather—hot and cloudy at intervals. Sowing of <i>dhadoi</i> and jute commenced in places. Drying of tobacco leaves in full swing. Prices have risen a little.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
• <i>Eastern Districts.</i>			
Dacca Div.	18 Dacca April 19, '90	2.89	Weather—hot and cloudy. Heavy rain with high wind in the Sudder subdivision. Cultivation of rice and jute going on. Harvesting of <i>boro</i> continues. Recent rain has done much good to the standing crops as well as to ploughing and sowing. Common rice 13 to 15 seers per rupee.
	19 Farroodpur „ 19, '90	0.25	Weather—seasonable. Ploughing of land for <i>aus</i> paddy and planting of sugarcane in progress. <i>Jali dhan</i> is being reaped in <i>char</i> lands. More rain wanted. Price of common rice varies from 13 to 15 seers per rupee.
	20 Backergunge „ 19, '90	0.86	Weather—hot and cloudy with occasional storms and rain. Prospect of fair. Common rice sells at 13 to 14 seers per rupee.
	21 Mymensingh „ 19, '90	0.66	Weather—seasonable. Storm at Jamalpore on night of 16th and at Sudder last night. Prospects of crops good. Reaping of <i>boro dhan</i> commenced. Common rice sells at 13½ seers per rupee.
Chittagong Div.	22 Chittagong „ 19, '90	1.41	Weather—hot. Cultivation of <i>aus</i> in progress. Chilly crop thriving. Common rice is being sold at 17 seers per rupee.
	23 Noakholly „ 19, '90	0.78	Weather—cloudy and rain at times. Sowing of <i>aus</i> crop has commenced. Rain has done good. Common rice is selling at from 14 to 20 seers per rupee.
	24 Tipperah „ 19, '90	1.49	Weather—cool with heavy storms of wind and rain. Harvesting of <i>boro dhan</i> almost completed. Jute, <i>amun</i> , <i>aus</i> and <i>tal</i> thriving. Lands being ploughed extensively.
	25 Chittagong Hill Tracts „ 18, '90	0.18	Weather—hot throughout the week and cloudy and rainy on the 17th. <i>Jam</i> cutting still continues. <i>Jam</i> burning has begun. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice being sold at 13 seers 14 chittacks per rupee.
BEHAR	Hill Tipperah	...	Report not received.
Patna Div.	26 Patna „ 19, '90	Nil	Weather—hot and dry. Threshing and winnowing of <i>rubbi</i> crops continue. <i>Chenna</i> has germinated well. Weighment of opium going on. Prices of food-grains almost stationary.
	27 Gya „ 19, '90	Nil	Weather—hot. <i>Rubbi</i> crops still being threshed. Opium weighments going on. Prices of food-grains almost stationary.
	28 Bahabad „ 19, '90	Nil	At Arrah varying winds and one dust storm and cloudy in latter end of week; elsewhere hot winds and seasonable weather. <i>Rubbi</i> harvested, giving about 13 annas outturn. Sugarcane transplanted. Price of rice 16 to 18 seers per rupee.
	29 Darbhanga „ 19, '90	Nil	East wind prevailing. <i>Mung</i> , <i>chenna</i> and paddy coming on well, but rain much wanted. Indigo doing well. Prices have slightly risen.
	30 Moufferspur Sitamarhi „ 19, '90	Nil	Weather—hot. Wind changeable. Stormy to north of Nepal frontier. <i>Rubbi</i> still being threshed. Rain wanted, and the crops on the ground are slightly suffering.
	31 Saran „ 19, '90	Nil	Weather—hot; west wind in early part of week; east wind latterly. Threshing of <i>rubbi</i> almost completed; outturn 16 annas as expected. <i>Chenna</i> doing well. Opium weighments in full swing.
Bhagalpur Div.	32 Chumpran „ 19, '90	Nil	Weather—hot except in the early morning; occasionally stormy. Threshing of <i>rubbi</i> going on. Paddy and <i>chenna</i> are still being sown. Opium weighment progressing.
	33 Monghyr „ 19, '90	Nil	Weather—hot; east wind prevailing. Threshing of <i>rubbi</i> crops almost finished. Prices of food-grains stationary.
	34 Bhagalpur „ 19, '90	0.04	Weather—hot and windy. Slight shower and nor'-western on Friday (18th). Rain much wanted both for crops on the ground and for tillage.
	35 Purneah „ 19, '90	Nil	Weather—cloudy with storms. Rain urgently needed in the Kishengunge subdivision for jute sowings, and elsewhere for early rice and <i>bhadoi</i> sowings. Weeding of rice on low lands commencing. Last night's rain, if general, will have done great good. <i>Rubbi</i> harvest practically completed.
	36 Maldah „ 19, '90	Nil	Weather—changeable. High wind with slight rain during last two days. Standing crops suffering much for want of sufficient rain. Rain also needed for preparation of lands for <i>bhadoi</i> and winter rice crops. State of mulberry fair. Common rice selling at 14 seers per rupee at Sudder.
	37 Bonthal Pergah „ 19, '90	0.20	Weather—hot and oppressive till yesterday (18th), when there was fairly heavy rain. <i>Mohun</i> crop reported to be poor. Sugarcane planting complete in Godda. Rain much wanted in Deoghur. Prices rising at Pakour.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack April 19, '90	Nil	Weather—mild. The sky gets overclouded every evening, but no rain has fallen yet. <i>Dates</i> rice doing well. Ploughing operations continue. Prospects generally good.
	39 Puri .. ..	..	Report not received.
	40 Balasore .. 19, '90	0.83	Weather—cooler than usual. Rain much wanted in the Bhuddrak subdivision. The season has been favourable for cultivation in the Sudder. Rather more than 200 coolies employed on Talpoda relief works.
CHOTA NAAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAAGPORE DIV.	41 Hazaribagh April 19, '90	Nil	Weather—seasonable. <i>Mohes</i> still dropping; outturn poor in parts of the Giridi subdivision. Mango prospects less promising.
	42 Lohardugga .. 19, '90	Nil	Weather—seasonable. Reaping of <i>rubbi</i> crop completed. Prices steady.
	43 Singhbhum .. 19, '90	Nil	Weather—hot and muggy. Clouds come up almost daily, but pass off without rain. Cotton promises to yield a full crop in Dhalbhum. Sugarcane is being planted there. <i>Mohes</i> crop promises to be a 16-anna one except in Baharagora outpost, where some damage has been done to it. Prices easy.
	44 Manbhum .. 19, '90	Nil	Weather—hot and cloudy. No crops on the ground except sugarcane. Ploughing not yet begun, there having been no showers yet.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 22nd April, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
15TH APRIL 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Bardwan	14 8	14 0	14 8	...	...	...	13 8	13 8	13 14	16 14	16 14	16 2	...	...	...
2	Bankura	15 0	15 0	15 0	18 0	17 0	20 0	17 8	17 8	16 0	20 0	20 0	18 0	...	...	...
3	Boorbhoon	16 8	16 8	15 0	...	...	...	13 8	13 8	13 8	16 8	18 0	16 8	...	...	...
4	Midnapore	14 0	13 0	10 0	17 8	15 0	...	14 0	15 0	16 0	17 8	18 12	18 0	...	...	...
5	Hooahly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	14 0	14 0	13 0	...	...	...
	Howrah	...	...	...	...	...	...	11 8	11 8	11 0	15 8	16 0	14 8	...	...	...
Central Districts.																			
	Calcutta	13 5	13 6	13 3	17 8	16 3	18 12	8 14	9 0	9 9	13 9	13 15	14 4	20 0	20 4	19 2			
6	24-Pergunnahs	14 8	13 12	13 8	20 0	16 0	20 0	8 0	8 0	8 0	16 8	16 0	13 8	...	...	...
7	Nuddas	15 0	15 0	16 0	19 0	20 0	22 13	12 8	12 5	13 5	12 10	12 10	13 8	...	...	...
8	Khoolna	...	...	...	...	...	...	13 0	12 8	13 4	14 8	14 0	14 0	...	...	...
9	Jessore	12 0	13 0	11 0	...	...	...	10 8	9 0	11 0	14 8	15 0	15 0	...	...	...
10	Moorshedabad	16 0	16 0	16 0	...	...	...	10 0	12 0	12 0	15 0	16 0	14 8	...	...	...
11	Dinapore	19 4	19 4	13 0	...	...	12 0	13 3	13 3	15 8	16 0	18 0	19 4	...	...	...
12	Rajshahye	16 8	16 8	16 8	24 0	26 4	30 0	12 12	13 8	12 12	14 4	15 12	14 4	...	...	...
13	Rangpore	13 5	13 5	14 8	...	...	...	9 7	9 6	10 8	13 5	14 8	16 0	...	...	...
14	Bogra	13 8	12 0	17 10	...	...	...	12 0	12 0	13 14	16 8	16 8	18 12	...	...	...
15	Patna	18 0	17 4	18 0	...	...	...	6 14	6 12	7 12	15 0	15 0	17 4	...	...	...
16	Darjeeling	9 0	10 0	6 0	10 0	9 0	10 0	6 0	6 0	6 0	12 0	12 0	13 0	...	...	...
17	Jaipigoree	13 0	13 0	9 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	16 0	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	15 8	16 0	16 0	26 0	14 0	14 0	14 4	15 0	15 0	16 0	...	...	...
19	Furzedpore	14 0	14 0	20 0	20 0	20 0	25 0	9 0	10 0	10 0	13 0	15 0	16 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 8	10 8	14 0	14 0	12 0	...	...	...
21	Mymensingh	11 8	11 4	10 0	...	...	...	10 0	10 0	12 0	12 8	13 0	17 0	...	...	...

B At Rampore Hat retail price of salt 9 annas per rupee.

C In subdivisions retail prices of salt per rupee are :—Berampore 10 seers and Jehanabad 10½ seers.

10 acres, Dum-Dum 10 acres, and Barrackpore 9 acres 2 chittacks.

At Matukia 1 - tail print of walt 9 score 18 shittacks per run.

... 10 score, Jagdishpur 10 score, and Kandi 11 score.

Source: *Author's calculations* based on data from the *Survey of Consumer Finances* (1993, 1998, 2001, 2004, 2007).

Head-quarter Station Bazars of the Districts of Bengal on the 15th April 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR TURR, CAJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.									
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.							
S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	A.	P.	S.	A.	P.				
BENGAL.																					
Western Districts.																					
...	30 0	30 0	18 0	100 0	100 0	107 0	10 0	10 0	10 2	3 11 0	3 11 0	3 11 0	3 11 0	3 11 0	Burdwan.				
30 0	35 0	21 8	30 8	20 8	18 0	380 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	3 15 0	3 15 0	Bankoora.				
...	19 8	12 12	...	160 0	160 0	160 0	10 0	10 0	9 12	3 14 0	3 14 0	3 14 0	3 14 0	3 14 0	Beerbhoom.				
...	15 0	14 0	14 0	160 0	160 0	160 0	10 0	10 0	10 4	3 14 0	3 14 0	3 14 0	3 14 0	3 14 0	Midnapore.				
...	11 0	11 0	13 0	120 0	120 0	120 0	9 0	9 0	9 0	3 11 0	3 11 0	3 11 0	3 11 0	3 11 0	Hooghly.				
...	13 4	13 4	13 4	100 0	100 0	100 0	10 0	10 0	10 8	3 12 0	3 12 0	3 12 0	3 12 0	3 12 0	Howrah.				
Central Districts.																					
0 18 4	16 18	16 14	17 7	100 0	100 0	98 0	10 5	10	10	3 9	3 10 2	3 9 6	3 9 6	3 9 6	Calcutta.				
...	18 0	18 0	16 0	100 0	100 0	100 0	10 4	10 4	10 4	9 0	3 9 0	3 10 0	3 10 0	3 10 0	24-Pergunnahs.				
...	17 12	17 12	19 0	...	...	...	9 13	9 13	9 2	3 13 0	3 13 0	3 13 0	3 13 0	3 13 0	Nudda.		
...	160 0	160 0	160 0	8 0	9 0	9 0	4 8 0	4 4 0	4 4 0	4 4 0	4 4 0	Khoolna.				
...	18 0	18 0	22 0	160 0	160 0	160 0	9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	4 0 0	4 0 0	Jessore.				
...	18 0	18 0	20 0	200 0	200 0	200 0	10 12	10 12	10 0	3 12 0	3 12 0	3 12 0	3 12 0	3 12 0	Moorshedabad.				
...	15 8	15 8	11 0	160 0	160 0	160 0	9 8	9 8	9 8	4 0 0	4 0 0	4 0 0	3 15 0	3 15 0	Dinapore.				
...	17 5	20 12	23 8	240 0	240 0	240 0	9 0	9 0	9 9	4 2 8	4 2 8	4 4 0	4 4 0	4 4 0	Rajahmudy.				
...	9 7	10 5	13 0	100 0	100 0	120 0	8 14	8 14	9 6	4 8 0	4 8 0	4 8 0	4 8 0	4 8 0	Rungpore.				
...	90 0	90 0	96 0	9 0	9 0	8 13	4 4 0	4 4 0	4 4 0	4 4 0	4 4 0	Bogra.				
...	18 12	19 0	20 10	200 0	200 0	200 0	8 11	9 7	9 2	4 0 0	3 15 0	4 0 0	4 0 0	4 0 0	Pubna.				
18 0	14 0	20 0	8 0	8 0	...	120 0	120 0	120 0	7 0	7 0	7 0	5 0 0	5 0 0	5 0 0	5 0 0	5 0 0	Darjeeling.				
...	13 0	13 0	9 0	120 0	120 0	120 0	0	9 0	9 0	4 2 0	4 2 0	4 2 0	4 2 0	4 2 0	Julpigoree.				
Eastern Districts.																					
...	14 0	14 0	16 0	160 0	160 0	120 0	9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	3 14 0	3 14 0	Dacca.				
15 0	16 0	...	11 0	11 0	14 0	120 0	120 0	120 0	8 8	8 8	10 0	4 12 0	4 8 0	3 14 0	3 14 0	3 14 0	Furzedpore.				
...	11 4	11 4	13 0	120 0	120 0	120 0	10 0	10 0	10 0	4 0 0	4 0 0	4 0 0	4 0 0	4 0 0	Backergunge.				
...	10 0	10 0	16 0	...	...	...	9 8	9 4	10 0	4 3 0	4 3 0	4 0 0	4 0 0	4 0 0	Mymensingh.		

H At Thakergunge retail price of salt 8 seers per rupee.

I In subdivisions retail prices of salt per rupee are:—Nattore 9 seers and Nowgong 9 seers 9 chittacks.

J In subdivisions retail prices of salt per rupee are:—Nilphamari 9 seers and Gaibanda 8 seers.

K At Seragunge retail price of salt 9 seers per rupee.

L At Siliguri wholesale price of salt Rs. 4-4 per maund.

M In the Alipore subdivision (at F. H. Calcutta) retail price of salt 8 seers per rupee.

N In subdivisions retail prices of salt per rupee are:—Manikgunge 8 seers, Moonshagunge 8 seers 14 chittacks, and Narain-
gunge 10 seers.

O In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Portapore 9 seers, and Bhola 8 seers.

P In the Kishoregunge, Jamalpore, Shorapore and Netrokona subdivisions retail price of salt 8 seers per rupee.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.		DISTRICTS.	QUANTITIES PER RUPEE IN														
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (Sorghum Vulgare.)		
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
Eastern Districts—concluded.																	
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 8	12 0	11 8	16 0	16 8	18 9	...	...	...
23	Noakholly ...	...	...	...	...	...	...	14 0	14 0	13 0	15 0	15 0	14 0	...	...	...
24	Tipperah ...	14 9½	14 9½	12 8	...	...	...	10 0	10 0	15 8	13 5	14 9	18 0	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	12 7	12 7	13 5	13 14	13 14	14 8	...	...	...
	Hill Tipperah...	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	14 0	15 0	18 0	...	...	...
BEHAR.																	
26	Patna ...	17 0	16 12	...	25 0	24 0	25 0	10 8	10 8	10 0	17 8	18 2	14 5	19 0	21 0	22 0	
		15 8	14 4	15 0	...	...	...	...	...	...	...	...	...	...	...	...
27	Gya ...	17 8	16 0	16 8	24 0	24 0	25 0	11 8	11 8	9 4	16 0	17 0	14 0	...	...	...
28	Shahabad ...	15 0	15 0	16 8	22 0	22 0	23 0	8 0	9 0	9 0	15 0	16 0	15 0	20 0	22 0	20 0	
29	Darbhanga ...	16 8	12 0	13 11	24 0	19 12	18 4	11 0	11 0	9 9	16 8	18 0	14 13	...	...	18 4
30	Moufferpore ...	16 0	14 0	14 0	24 0	20 0	25 0	9 0	11 0	10 0	16 0	17 0	12 8	...	...	...
31	Saran ...	15 4	15 0	17 0	21 8	22 0	21 0	8 8	8 8	8 4	15 5	16 2	12 0	...	...	...
32	Chumpanan* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	Monghyr ...	17 13	17 11	18 14	22 1	23 1	24 6	15 12	17 13	12 10	17 13	18 14	13 12	...	...	...
34	Bhagulpore ...	17 11	17 11	16 11	23 5	22 11	21 7	10 1	11 0	12 10	12 10	15 2	14 8	...	...	...
		...	...	...	...	...	...	Old.	...	...	Old.	...	...	...	...	...
		...	...	...	...	...	...	New.	...	...	New.	...	...	...	...	...
35	Purneah ...	16 0	14 0	16 0	...	...	26 0	17 0	18 0	13 0	19 0	19 0	16 0	...	...	...
36	Maldah ...	16 0	20 0	17 0	...	...	...	8 0	10 0	10 0	15 0	17 0	15 0	...	...	...
37	Bonthal Pergha. ...	13 0	13 0	13 0	...	...	...	13 0	13 0	14 0	16 0	17 0	16 0	...	...	...
ORISSA.																	
38	Cuttack ...	14 7	13 2	14 7	...	...	...	10 8	10 8	10 8	18 0	18 0	15 12	...	...	...
39	Pooree ...	11 13	10 8	11 13	...	...	...	14 7	15 12	11 13	21 0	22 10	15 12	...	...	...
40	Balasore ...	15 0	15 0	15 0	18 0	18 0	18 0	13 0	13 0	12 0	20 0	21 0	18 0	...	...	...
CHOTA NAGPORE.																	
South-West Frontier Agency.																	
41	Hazaribagh ...	14 0	13 0	14 0	13 0	13 0	17 0	10 0	10 0	8 0	17 0	16 8	15 0	...	...	...
42	Lohardugga ...	8 0	9 0	11 0	23 0	24 0	16 0	14 8	14 0	13 0	15 0	16 0	14 0	...	...	...
		14 0	15 0	13 0	...	...	...	...	...	...	...	...	...	...	...	...
43	Bagbhoom ...	10 0	10 0	14 0	10 0	10 0	16 0	16 0	16 0	14 0	20 0	20 0	22 0	...	...	...
44	Manbhoom ...	12 5	14 0	14 0	30 0	25 0	20 0	14 8	12 0	13 0	22 0	22 0	19 0	...	...	...

* Return not received.

† Price of common rice at Jajpore 22 seers 6 chittacks and at Khandrapara 23 seers 10 chittacks per rupee.

Q At Cox's Bazar retail price of salt 8 seers per rupee.

R At Panny Hal retail price of salt 8 seers per rupee.

S In subdivisions retail prices of salt per rupee are:—Samaron 10 seers, Bhabuah 8½ seers, and Buxar 10½ seers.

T At Bamastipore retail price of salt 11 seers per rupee.

CALCUTTA,
The 22nd April, 1890.

JOWAR OR CHOLU. (<i>Sorghum Vulgare.</i>)			BAJRA OR COMBU. (<i>Pennisetum typhoidum.</i>)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
1 12 01	11 11	2 1 02	4 42	4 03	0 0
...
...
...
...
2 0 01	14 01	13 02	10 02	10 0	...
...
...
...
...

868a

KAKUMI OR KAKUM, ITALIAN MILLER. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY OR SUNDAGA. (<i>Cleor aristatum</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
..	.	..		12	4	12	0	11	0
...		12	0	12	0	12	0
		..		13	5	14	9	16	0
..		12	0	12	0	10	0

20	0	22	0	15	8	24	0	24	8	26	0
25	0	15	0	13	8	20	0	20	0	21	0
...	...	...	...	...	...	23	0	23	0	23	0
14	0	...	...	...	...	20	0	23	0	22	1
...	...	8	0	...	...	21	0	23	0	20	0
16	0	16	0	12	0	21	8	22	4	21	4
...
...	...	...	...	...	...	25	14	25	12	24	6
...	...	...	...	...	...	20	3	20	3	21	7
...	...	...	...	...	...	20	0	16	0	16	0
...	...	...	...	...	...	22	0	20	0	24	0
...	...	...	...	...	...	17	0	17	0	18	8

000	000	000	15 12	15 12	21 0
000	000	000	14 7	14 7	15 12
000	000	000	14 0	14 0	13 0

000	001	002	17 0 18 0 15 0
000	002	003	15 8 16 0 13 0
000	001	000	10 0 10 0 12 0
000	002	000	18 0 19 0 15 0

8664

BAJRA OR COMBU. (<i>Pennisetum typhoidum.</i>)		MARVA OR RAGI. (<i>Elousine Coronea.</i>)	
Present return.	Next preceding return.	Present return.	Next preceding return.
Corresponding return of last year.	Corresponding return of last year.	Corresponding return of last year.	Corresponding return of last year.

[illegible][illegible][illegible]

884

KANONI OR KAKUN,
ITALIAN MILLET.
(*Setaria italica*.)

Present return.
Next preceding re-
turn.
Corresponding re-
turn of last year.

GRAM, CHANA,
CHHOLA, KADALAY
OR SUNAGA.
(*Cicer arietinum*.)

Present return.
Next preceding re-
turn.
Corresponding re-
turn of last year.

10 5 11 0 12 15 17 10 16 12 18 7
6 0 6 0 12 0 20 0 20 0 20 0
21 5 21 5 22 14
13 0 12 0 13 0
16 0 16 0 20 0
22 0 22 0 22 0
16 0 16 8 1 12
21 0 21 0 4 0
12 4 12 5 10 0
16 0 12 12 19 8
18 0 9 8 22 13
11 0 11 0 12 0
18 0 18 0 12 0

10 5 11 0 12 15 17 10 16 12 18 7
6 0 6 0 12 0 20 0 20 0 20 0
21 5 21 5 22 14
13 0 12 0 13 0
16 0 16 0 20 0
22 0 22 0 22 0
16 0 16 8 1 12
21 0 21 0 4 0
12 4 12 5 10 0
16 0 12 12 19 8
18 0 9 8 22 13
11 0 11 0 12 0
18 0 18 0 12 0

18 0 18 0 13 0
16 0 16 0 22 0
15 4 18 4 16 0
18 0 18 8 13 0

8646

SEERS OF 30 TOLAH.

BAJRA OR CUMBU.
(*Pennisetum typho-
deum*.)

Present return.
Next preceding re-
turn.
Corresponding re-
turn of last year.

MAHUA OR RAGI.
(*Eleusine Coracana*.)

Present return.
Next preceding re-
turn.
Corresponding re-
turn of last year.

18 0 15 0 ... 30 0 30 0
22 0 ... 24 0 26 7 20 2
22 0 22 0 22 0 20 0

22 0 ... 24 0 26 7 20 2
22 0 22 0 22 0 20 0

23 0 30 0 21 0
No 40 0 25 0
sole.

8647

OF 40 SEERS.

MAHUA OR RAGI.
(*Eleusine Coracana*.)

Present return.
Next preceding return.
Corresponding return
of last year.

KANONI OR KAKUN,
ITALIAN MILLET.
(*Setaria italica*.)

Present return.
Next preceding return.
Corresponding return
of last year.

R. A. P. R. A. P. R. A. P. R. A. P. R. A. P. R. A. P.
3 5 73 0 0 1 13 8
15 0 15 0 ... 1 15 61 12 02 8 0
8686

Station Bazars of the Districts of Bengal on the 15th April 1890—(concluded).

INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CAJIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	

Eastern Districts—concluded.															DISTRICTS.
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
...	110	0	110	0	108	0	9	0	9	Chittagong.
...	8	0	8	0	...	...	...	9	0	9	0	9	Nonaholly.
...	8	0	8	0	...	...	...	9	8	9	8	9	Tipperah.
...	320	0	320	0	320	0	8	0	8	Chittagong Hill Tracts.
...	8	0	8	0	...	...	...	8	0	8	0	8	Hill Tipperah.

BEHAR.															DISTRICTS.
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
22	0	24	0	19	0	21	0	22	0	23	0	130	0	130	Patna.
...	...	...	...	...	...	21	0	21	0	21	0	160	0	160	Gya.
...	...	...	...	...	...	20	0	22	0	14	0	160	0	160	Shahabad.
22	0	24	0	...	...	22	0	18	0	21	2	160	0	160	Darbhanga.
20	0	20	0	18	0	10	0	18	0	25	0	160	0	160	Muzaffarpore.
20	0	22	0	20	0	20	0	20	0	22	8	160	0	160	Safai.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chumpanur.
21	0	21	0	19	14	23	1	23	1	19	14	147	0	147	Monghyr.
22	11	22	11	17	10	21	7	20	3	20	3	176	12	176	Bhagalpore.
...	...	...	...	...	...	16	0	16	0	16	0	130	0	130	Purneah.
...	...	...	...	...	...	...	...	...	...	...	...	16	0	160	Maldah.
24	0	24	0	18	0	20	0	20	0	22	0	200	0	200	Sonthal Pergas.

ORISSA.															DISTRICTS.
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
...	19	11	18	0	18	0	80	0	80	0	11	0	Cuttack.
...	15	12	14	7	13	2	80	0	80	0	11	13	Pooree.
...	130	0	160	0	160	0	Balasore.

CHOTA NAGPORE.															DISTRICTS.
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
22	0	22	0	10	0	21	0	118	0	18	0	320	0	320	Hazaribagh.
34	0	30	0	...	...	...	...	...	16	0	12	0	120	0	Lohardugga.
12	0	16	0	22	0	14	0	14	0	16	0	240	0	200	Singbhoom.
19	0	20	0	30	0	21	0	20	0	17	0	200	0	200	Manbhoom.

U In subdivisions retail prices of salt per rupee are :—Hajipore 0½ seers and Sitamarhi 10 seers.

V In subdivisions retail prices of salt per rupee are :—Bhagalpur 9½ seers and Jamui 9 seers.

W In subdivisions retail prices of salt per rupee are :—Kishongunge 8 seers and Arraerah (at Ranigunge) 10 seers.

X At Bhandruk retail price of salt 9 seers per rupee.

Y At Gomudpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 0	2 11 10	2 12 5	2 0 5	2 3 7	1 14 0	4 4 0	4 3 5	3 14 8	2 11 0	2 9 9	2 8 0
2	Serajgunge ...	2 8 0	2 7 0	2 8 0	...	...	...	4 14 0	4 10 0	3 10 0	3 1 0	2 14 0	2 8 0
3	Dacca ...	3 0 0	3 0 0	2 8 0	2 7 0	2 7 0	1 8 0	2 13 0	2 13 0	2 12 0	2 10 0	2 10 0	2 8 0
4	Narsingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	2 8 0	2 12 0	2 12 0	2 8 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 0 0	3 4 0	3 6 0	2 8 0	2 7 7	2 15 0
6	Patna ...	{ 2 5 8 Red. 2 9 0 White.	2 5 9	...	1 9 3	1 10 0	1 9 0	3 12 0	3 12 0	3 12 0	2 4 0	2 3 0	2 12 0
7	Balassore ...		2 12 6	2 10 0									
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 0	1 11 0	2 4 0
9	Cuttack ...	2 10 0	3 0 0	2 10 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 5 0

Calcutta,
The 22nd April, 1890.

in the undermentioned *Marts* of Bengal on the 15th April 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cleor Aristinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ANBAR OR THUS, CAJAN PEA. (<i>Cajanus indicus</i> .)			FIRKWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 0 0	2 1 1	1 16 0	1 14 9	1 16 2	...	2 1 5	2 1 8	2 1 0	0 5 6	0 5 6	0 5 10	3 9 5	3 10 2	3 9 6	Calcutta.
2 9 0	2 4 0	2 7 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 0	Berajunge.
3 0 0	3 0 0	3 0 0	...	...	...	2 12 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
2 12 0	3 0 0	3 0 0	...	...	...	3 0 0	3 2 0	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Narainjunge.
3 2 0	3 4 0	3 8 0	...	...	...	...	...	...	0 6 0	0 6 0	0 5 0	3 12 0	4 0 0	4 0 0	Chittagong.
1 10 3	1 9 6	1 11 3	1 12 0	1 10 0	2 1 0	1 10 3	1 12 0	1 11 6	0 5 0	0 5 0	0 5 0	3 13 0	3 14 0	3 12 0	Patna.
2 12 0	2 12 0	2 14 0	...	...	...	...	...	...	0 4 5	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Raisore.
...	...	...	...	...	...	...	...	...	...	...	...	3 6 0	3 6 0	3 6 0	Poorce.
2 5 0	2 5 0	1 11 0	...	...	...	2 0 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	4 7 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

IMPORTS INTO CALCUTTA.

* One maund of paddy is equivalent to 25 acres of rice. † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of January, 1890, was as follows :—

REPORTED FROM CALCUTTA—														
To Indian ports.														
Bombay	3,92,187	80	2,32,165	652	.....	3,22,708	5	923,400	.....	8,877	809	.....	.....	.....
Madras	1,324	.....	1,324	632	31,912	220	23,900	.....	451,900	640	10	.....	60	80
Other ports in India	1,81,710	2,766	1,84,066	4	1,444	.....	1,85,606	.....	190,550	.....	.....	.....	17	5
Madras	4,773	.....	4,773	4,207	13,826	5,676	27,494	253	2,439,007	.....	86	167	16	380
Other Indian ports	1	.....	1	867	3,870	.....	6,418	.....	800,000	.....	.....	.....	1,897	7,818
Pantheberry bund	400	.....	400	.....	240	.....	350	.....	54,000	.....	.....	.....	.....	.....
Total of Inter-port trade	5,10,340	2,776	5,13,029	5,610	63,860	2,974	5,44,963	253	4,618,042	.....	4,920	916	167	100
To Foreign ports—														
United Kingdom	2,85,579	.....	2,25,579	20,170	3,801	.....	2,64,343	9,46,053	780,600	55,463	33,480	1,11,738	18,080	275
Other Foreign ports	9,83,936	2,450	9,83,486	1,401	87,091	1,190	9,83,700	6,14,360	6,871,120	1,10,075	93	6,844	1,11,250	1,373
Total of Foreign trade	10,79,515	2,450	10,81,037	20,273	41,891	1,190	11,64,092	15,60,413	7,687,720	1,65,538	23,513	1,18,582	1,26,910	1,653
Grand Total	16,09,855	5,226	15,94,066	86,133	104,751	4,164	17,19,055	16,30,070	13,270,871	1,06,188	26,851	1,17,800	1,27,003	1,758
in Jan. 1900	13,58,908	8,307	13,51,603	39,900	1,10,782	9,387	15,16,870	18,94,076	9,100,871	9,04,923	1,082	97,226	84,425	1,170

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of January, 1890.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Re-fined.	Un-refined.	Manufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	17,90,173	89,680	35,034	71,473	2,543	6,30,777	707,191	13,707	13,454	.....	3,087	376	628	23,907	8,723	1,088
By river steamers ...	56,154	763	.....	2,904	.....	4,32,544	.....	440	20,914	82,707	6,133	220	.....	3	474	.....
By rail { East Indian	3,71,056	3,781	1,21,053	1,32,034	18,986	57,017	61,980	72,210	93,550	1,580	1,62,089	1,400	79	40,468	1,168	287
" { Eastern Bengal State Railway.	16,290	60	.....	19,788	80	7,75,221	819,246	1,222	12,406	17,903	3,398	1,025	.....	7,447	20,722	.....
By road ...	71,172	8,655	.....	8,115	.....	1,12,590	27,906	.....	.....	90	.....	.....	4,000	27,362	4,308	81
Grand Total of Imports in January.	28,00,899	1,00,070	1,60,067	2,30,579	21,835	30,10,635	1,640,170	89,830	1,40,497	1,02,760	1,93,399	3,127	43,977	1,30,934	23,820	3,341
	28,16,304	1,00,230	90,066	2,10,167	11,206	14,30,545	1,711,132	3,08,770	65,086	64,300	1,40,441	1,573	62,878	1,34,458	12,619	30,044

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of January, 1890.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.	Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.				European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.		Rs.	Rs.	Mds.	Mds.	Mds.	No.
CHOTA NAGPORE.													
Hazaribagh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lehrdugga	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Munabhoom	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manbhoom	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total of Chota Nagpore	1,52,105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OTHER PROVINCES.													
Assam	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North-Western Provinces	11,72,241	22,010	3,460	931	29,974	215,000	.....	.....	.....	.....	.....	.....	.....
Punjab	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Central Provinces	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rajputana States	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bihar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nizam's Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bombay	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madras	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pondicherry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burmah	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other places	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Total of Exports in Jan. 1890	1,01,99,739	36,177	33,283	12,365	6,32,454	10,821,420	.....	.....	.....	.....	.....	.....	.....
THE SEA-BORNE TRADE OF CALCUTTA IN THESE STAPLES DURING THE MONTH OF JANUARY, 1890, WAS AS FOLLOWS:—													
IMPORTED INTO CALCUTTA—													
From Foreign Ports—	Rs.	Rs.	Mds.	Mds.	Mds.	No.	From Foreign Ports—	Rs.	Rs.	Mds.	Mds.	Mds.	No.
United Kingdom	1,02,20,229	.....	6,467	.....	2,63,303	.....	United Kingdom	1,02,20,229	.....	6,467	.....	2,63,303	.....
Other Foreign ports	81,951	.....	7,253	.....	4,04,307	1,800	Other Foreign ports	81,951	.....	7,253	.....	4,04,307	1,800
Total of Foreign Trade	1,03,02,180	.....	13,720	.....	7,17,610	1,800	Total of Foreign Trade	1,03,02,180	.....	13,720	.....	7,17,610	1,800
From Indian Ports—	.....	.....	.....	.....	.....	.....	From Indian Ports—	.....	.....	.....	.....	.....	.....
Bombay	18,043	1,653	7	8,065	5,275	20,900	Bombay	18,043	1,653	7	8,065	5,275	20,900
Other ports in Bombay	.....	.....	.....	.....	.....	.....	Other ports in Bombay	.....	.....	.....	.....	.....	.....
Madras	.....	2,400	.....	.....	.....	.....	Madras	.....	2,400	.....	.....	.....	.....
Other ports in Madras	.....	.....	.....	.....	.....	.....	Other ports in Madras	.....	.....	.....	.....	.....	.....
Burmah	6,000	1,412	.....	.....	.....	.....	Burmah	6,000	1,412	.....	.....	.....	.....
Other Indian ports	.....	.....	.....	.....	.....	.....	Other Indian ports	.....	.....	.....	.....	.....	.....
Total of Interport Trade	24,043	5,465	13	8,285	40,508	21,900	Total of Interport Trade	24,043	5,465	13	8,285	40,508	21,900
Grand Total of Imports in Jan. 1890	1,03,26,223	5,465	13,733	8,285	7,19,618	24,000	Grand Total of Imports in Jan. 1890	1,03,26,223	5,465	13,733	8,285	7,19,618	24,000
	1,42,61,954	1,07,380	34,001	11,519	7,06,308	9,610		1,42,61,954	1,07,380	34,001	11,519	7,06,308	9,610
* As per tariff declaration value.													

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of January, 1890.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,44,650	7,515	1,438	.....	2,00,948	116,167
By river steamers	6,57,411	.....	1,700	.....	27,009	37,000
By rail { East Indian Railway	43,37,018	50,100	6,427	9,674	3,08,034	1,592,065
" { Eastern Bengal State Railway	26,38,753	.....	6,790	.....	74,210	150,220
By road	1,84,083	6,708	519	.....	4,219	5,543
Grand Total of Exports in January	24,03,511	66,321	18,090	27,115	6,35,121	17,809,016
	1,01,09,739	26,173	33,283	12,365	6,32,454	10,821,420

STATISTICAL DEPARTMENT,
The 19th January, 1890.

P. NOLAN,
Secretary to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

			STATION OBSERVATIONS.														
			AIR PRESSURE.			WIND.		TEMPERATURE.									
DISTRICT.			Representative station.	Mean barometric height, 5 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 5 A.M. temperature.
SOUTH-WEST BENGAL.	Pooroo	Pooroo	29.797	29.800	-.003	SW	300	88.7	17th April	76.1	17th April	87.4	79.1	83.2	-.06	81.2	
	Pooroo	Pooroo	29.774	29.786	-.012	SW	307.4	86.7	18th April	77.8	17th April	87.4	79.1	83.2	-.06	81.2	
	Pooroo	Pooroo	29.796	29.818	-.022	SW	404.0	89.5	18th April	77.1	17th April	89.6	79.0	85.8	-.04	85.8	
SOUTH-WEST BENGAL.	Cuttack	Cuttack	29.731	29.613	-.018	SW	136.7	104.4	16th April	77.3	18th April	101.1	78.8	90.0	-.06	89.7	
	Balasore	Balasore	29.734	29.793	-.059	SW	976.1	102.5	16th April	74.8	15th & 17th April	97.0	76.7	86.9	+.07	82.6	
	South-West Midnapore	Sanger Island	29.781	29.607	-.073	SW	610.0	81.2	18th April	81.0	18th, 19th & 20th April	90.6	81.4	86.0	+.00	86.2	
SOUTH-WEST BENGAL.	Midnapore	Midnapore	29.644	29.784	-.031	S	155.7	107.4	15th April	75.1	13th, 17th April	109.0	76.8	90.9	+1.0	84.1	
	24-Pergunnahs	Calcutta	29.763	29.787	-.024	SW	222.0	101.4	16th April	74.2	18th April	93.1	77.2	86.1	0	82.7	
	Howrah	Howrah	29.753	29.787	-.034	SW	222.0	101.4	16th April	74.2	18th April	93.1	77.2	86.1	0	82.7	
SOUTH-WEST BENGAL.	Hardwar	Hardwar	29.659	29.760	-.042	SSE	149.8	100.2	12th April	75.0	18th April	104.4	77.3	90.0	+2.3	87.0	
	Bankura	Bankura	29.445	29.743	-.041	S	100.6	110.1	18th April	75.6	16th April	107.6	77.8	88.7	+2.7	84.3	
	Ranching	Ranching	29.438	29.711	-.037	Southerly	97.7	108.3	13th & 14th April	76.8	16th April	107.4	77.0	89.5	+3.2	85.3	
SOUTH-WEST BENGAL.	Mooredhahad	Mooredhahad	29.682	29.760	-.046	S	172.8	101.2	14th April	71.8	19th April	100.0	76.3	90.4	+2.3	80.1	
	Keshnagar	Keshnagar	29.731	29.769	-.029	SSE	213.0	103.8	12th April	71.4	18th April	103.7	76.6	90.2	+4.2	83.1	
	Jessore	Jessore	29.763	29.787	-.024	SE	168.6	100.8	14th April	68.5	18th April	95.5	76.8	87.7	+.02	82.3	
SOUTH-WEST BENGAL.	Chittagong	Chittagong	29.786	29.677	-.011	SE	225.4	89.1	18th to 19th April	69.0	16th & 17th April	88.6	73.0	81.2	-.01	80.5	
	Chittagong Hill Tracts	Chittagong	29.786	29.677	-.011	SE	225.4	89.1	18th to 19th April	69.0	16th & 17th April	88.6	73.0	81.2	-.01	80.5	
	Chittagong Hill Tracts	Chittagong	29.786	29.677	-.011	SE	225.4	89.1	18th to 19th April	69.0	16th & 17th April	88.6	73.0	81.2	-.01	80.5	
SOUTH-WEST BENGAL.	Barisal	Barisal	29.688	29.820	-.015	S	240.0	82.3	17th April	67.0	18th April	91.1	76.2	83.0	+.03	81.8	
	Naokhali	Naokhali	29.828	29.872	+.044	S	202.2	90.0	18th April	68.0	17th April	89.1	74.7	81.0	-1.2	81.7	
	Furteedpore	Furteedpore	29.764	29.804	-.034	S	240.0	83.3	16th April	69.0	16th April	90.9	75.3	82.9	-1.7	80.0	
SOUTH-WEST BENGAL.	Dacca	Dacca	29.783	29.846	-.063	Southerly	364.9	89.1	14th April	68.8	18th April	86.6	73.4	83.5	+1.1	80.3	
	Comilla	Comilla	29.801	29.837	-.036	S	222.8	83.8	13th April	67.3	16th April	90.5	75.8	82.7	-.03	80.6	
	Mymensingh	Mymensingh	29.792	29.811	-.019	ENE	144.2	83.8	16th April	68.1	18th April	91.7	73.1	81.0	-.05	79.3	
SOUTH-WEST BENGAL.	Barisal	Barisal	29.768	29.771	-.003	SE	164.1	105.1	13th April	68.7	18th April	100.3	76.7	87.8	+2.4	80.3	
	Panna	Panna	29.789	29.788	-.001	S. SE	158.1	87.0	14th April	68.0	16th April	98.5	75.6	86.8	-.00	78.8	
	Rajshahi	Rajshahi	29.789	29.789	-.000	SSW, SE	161.1	104.0	14th, 16th April	68.2	16th April	100.0	75.2	87.0	+1.0	81.0	
SOUTH-WEST BENGAL.	Malda	Malda	29.687	29.770	+.083	Southerly	47.0	100.8	13th April	74.2	16th April	100.0	75.0	86.0	+1.7	83.2	
	Dinapore	Dinapore	29.659	29.771	-.052	ENE	160.0	104.0	16th April	70.1	16th April	100.1	74.3	87.3	+2.7	81.3	
	Rangpur	Rangpur	29.807	29.794	-.017	S & E	72.0	102.5	13th April	67.1	16th April	88.9	73.9	83.4	+.58	77.3	
SOUTH-WEST BENGAL.	Chandpur	Chandpur	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Darjeeling Hill Tracts	Darjeeling	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Purnea	Purnea	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
SOUTH-WEST BENGAL.	North Bhagulpore	North Bhagulpore	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Muzaffarpore	Muzaffarpore	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Dumka	Dumka	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
SOUTH-WEST BENGAL.	Chumpra	Chumpra	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Bara	Bara	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Shahabad	Shahabad	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
SOUTH-WEST BENGAL.	Bara	Bara	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Bara	Bara	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
	Bara	Bara	29.680	29.767	-.016	S	158.1	102.2	16th April	67.9	16th April	89.7	70.7	80.8	+.00	77.1	
SOUTH-WEST BENGAL.	Gaya	Gaya	29.674	29.749	-.075	W	137.1	108.0	14th April	76.5	15th & 16th April	100.0	79.1	82.6	+4.5	80.1	
	Patna	Patna	29.656	29.736	-.080	ENE	125.6	100.0	14th April	70.1	16th April	100.6	76.1	80.3	+3.3	82.1	
	South Bhagulpore	Bhagulpore	29.671	29.733	-.062	Chin. & easterly	74.8	100.0	14th April	70.0	16th April	100.7	73.8	85.2	+2.0	83.1	
SOUTH-WEST BENGAL.	Howrah	Howrah	29.753	29.787	-.034	SW	222.0	101.4	16th April	74.2	18th April	93.1	77.2	86.1	0	82.7	
	Howrah	Howrah	29.753	29.787	-.034	SW	222.0	101.4	16th April	74.2	18th April	93.1	77.2	86.1	0	82.7	
	Howrah	Howrah	29.753	29.787	-.034	SW	222.0	101.4	16th April	74.2	18th April	93.1	77.2	86.1	0	82.7	
SOUTH-WEST BENGAL.	Ranching	Ranching	29.438	29.711	-.037	Southerly	97.7	108.3	13th & 14th April	76.8	16th April	107.4	77.0	89.5	+3.2	85.3	
	Ranching	Ranching	29.438	29.711	-.037	Southerly	97.7	108.3	13th & 14th April	76.8	16th April	107.4	77.0	89.5	+3.2	85.3	
	Ranching	Ranching	29.438	29.711	-.037	Southerly	97.7	108.3	13th & 14th April	76.8	16th April	107.4	77.0	89.5	+3.2	85.3	

Explanation.—Summary.—The normal means of air pressure and temperature are the uncorrected averages or means of the readings during the same period for the 10 years 1880-1889. The quantity of the atmosphere is expressed in pressure measured at sea-level. A moist sky is denoted by m and a clear sky by c. The annual means are the means of the means of the readings during the same period for the 10 years 1880-1889. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 18th of April 1890.

					DISTRICT OBSERVATIONS.												
					RAINFALL.												
					Since 1st of month.			Since 15th May 1889.							Representative station.	District.	

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. Under the head District observations of rainfall the normal means denoting cloud amount represent the part of the sky covered, the whole sky being denoted by 10. The means of the district are the numerical average of the rainfall return received in the district, &c., from total rainfall at the sub-divisional 17 years. The means of the district are the numerical average of the rainfall return received in the district, &c., from total rainfall at the sub-divisional 17 years.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of April 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 12th April.	Sunday, 13th April.	Monday, 14th April.	Tuesday, 15th April.	Wednesday, 16th April.	Thursday, 17th April.	Friday, 18th April.	Number rainy days.	Rainfall week.				
OCHRA	Pooree	Pooree	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.05	52.96
		Khurdah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	54.33
		Banpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.43	50.28
		False Point	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.22	67.26
		Gop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?
		Satpara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?
	Outback	Pipli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?
		Jagatsingapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.19	44.78
		Banki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37	51.70
		Outback	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.02	55.38
SOUTH-WEST BENGAL.	Balasore	Kondrapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.94	30.79
		Jajpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.10	?
		Dharmasala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.78	?
		Satpara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	?	?
		Chandball	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.71	55.06
		Bhuddruck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	55.03
	Midnapore	Sorab	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.45
		Balasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.11
		Jolasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.33
		Raripodah	0.13	0.15	0.00	0.00	0.00	0.00	0.00	1	0.27	0.28	0.28	20.00	54.33
24-Pergunnahs.	Diamond Bar.	bour	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	62.00
		Canning Town	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	50.77
		Alipore Jail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.01	51.50
		Barrackpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00	55.00
		Dum-Dum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.47
		Barasat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.30
	Howrah	Buccerhat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.30
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.30
		Mohoraka (Ooloberia.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.30
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.30
Hooghly	Serampore	Serampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.19	53.48
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.11	51.45
	Jehanabad	Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00	54.25
		Culna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.47	47.76
		Burdwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.10	51.16
		Outwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.00
	Raneegunge	Manikpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.27
		Manikpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.23	?
		Bankura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	54.23
		Bishenpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.05
Bankura	Mallara	Mallara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.40
		Khatra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.00
		Indas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Kotalpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.01	?
	Anda	Anda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Gangajalhati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Kaipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Sonamukhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
	Barbours	Bh. Soory	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	56.73
		Hetampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.15
Rampore Haut		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.95	
Boipore		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.74	
Hodda	Murari	Murari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Ranaghat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.14
		Kishnaghat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	49.78
		Choodanga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.70
	Mehurpore	Mehurpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.94
		Kooshten	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.15
		Satkhira	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.78
		Bagurhat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.15
	Khoolna	Khoolna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.41
		Nakipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
Jenore	Kampal	Kampal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Narail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.17
		Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.50
		Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
	Jenore	Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
		Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
		Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
		Jenore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
	Moorshedabad	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
		Berhampore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	50.30
HAT BENGAL	Chittagong	Lalbagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	54.15
		Asimgunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.69
		Jungipore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.14
		Lalgola	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.07
	Chittagong Hill Tracts.	Jiaganj	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Atarganj	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Pathabari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	?
	Hectorburg	Patnabally	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	51.43
		Patnabally	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of April 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 12th April.	Sunday, 13th April.	Monday, 14th April.	Tuesday, 15th April.	Wednesday, 16th April.	Thursday, 17th April.	Friday, 18th April.	Number rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhally	Gournadi ..	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	?	63.34	?
		Baughal ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.10	?	63.34	?
		Noakhally ..	0.00	0.00	0.00	0.00	0.00	0.00	0.41	2	0.41	0.34	1.78	104.21	119.99
	Farredpore	Penny ..	0.00	0.00	0.00	0.00	0.00	0.00	0.50	2	0.50	1.37	3.03	82.02	113.01
		Harishpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	2	0.10	0.60	?	87.63	?
		Ramganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1	0.16	0.38	1.44	63.85	60.85
	Dacca	Kadailpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.70	1.47	60.60	62.10
		Farredpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1	0.11	1.63	1.46	60.60	62.10
		Goalundo ..	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1	0.11	1.63	1.46	60.60	62.10
	Hill Tipperah	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2	1.24	2.06	2.53	82.02	70.85
		Dacca ..	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2	0.75	4.37	2.18	83.43	63.74
		Naraingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	1.48	2	1.48	1.44	1.41	85.05	63.46
	Tipperah	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2	0.13	1.47	1.46	72.14	64.61
		Joydebpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2	0.13	1.47	1.46	72.14	64.61
		Joydebpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2	0.13	1.47	1.46	72.14	64.61
	Mymensingh	Amritola ..	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2	1.24	2.06	2.53	82.02	70.85
		Conilla ..	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2	0.75	4.37	2.18	83.43	63.74
		Chandpore ..	0.00	0.00	0.00	0.00	0.00	0.00	1.48	2	1.48	1.44	1.41	85.05	63.46
	Mymensingh	Brahmunbaria ..	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2	0.13	1.47	1.46	72.14	64.61
		Ramchandrapore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.13	2	0.13	1.47	1.46	72.14	64.61
		Nasirpur ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
	Mymensingh	Daudkandi ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Kasba ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Lakshmi ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
	Mymensingh	Kishoreganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Atia (Tangail) ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Mymensingh ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
	Mymensingh	Jamulpore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Netrakona ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
		Subarnachal ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85
Mymensingh	Pargana ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Sherepore Town ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Dowlingganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Pubna	Pubna ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Soraganga ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Soraganga ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Mogra	Sherepore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Bowkhilla ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Mogra ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Rajshahi	Panchbibi ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Banuloh ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Natore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Maldah	Naogaon ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Lalpur ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Manda ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Maldah	Maldah ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Chanchal ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Gajal ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Maldah	Silganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Mohadepore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Churamun ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Maldah	Kangura ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Imamganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Kalichhat ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Rangpur	Thakurgaon ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Shawanganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	(Gyabanda) ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Jalpaiguri	Rangpur ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Kurigram ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Haldibari ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Jalpaiguri	(Nilphamari) ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Ultapur ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Ultapur ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Jalpaiguri	Alipore ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Dacca ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Pallacotta ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Oooch Behar	Debaganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Imamganj ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	(Narail) ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
Darjeeling Hill	Dumkai ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Chowk Bazar ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
North Bengal	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
North Bengal	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
North Bengal	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10	0.38	1.44	63.85	60.85	
North Bengal	Munshingunge ..	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1	0.10					

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of April 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 16th May 1889.	Average rainfall from 16th May to date.
			Saturday, 12th April.	Sunday, 13th April.	Monday, 14th April.	Tuesday, 15th April.	Wednesday, 16th April.	Thursday, 17th April.	Friday, 18th April.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—continued.	Chharpur.	Motihari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	78.68	45.18
		Buttish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	82.89	46.80
		Burkha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	70.44	40.70
	Saran.	Burkha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	81.03	45.18
		Gopalgunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	85.73	44.33
		Chharpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.45	41.81
	Shahabad.	Burkha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	47.74	30.38
		Burkha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	41.02	41.08
		Burkha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	84.01	43.11
	Gya.	Samsonam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.81	41.28
Arrah		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	84.62	41.27	
Mahanish		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?	
NORTH BENGAL—continued.	Patna.	Arrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	85.68	43.75
		Gya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.70	43.64
		Nowadah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.72	41.11
	Patna.	Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	83.77	41.86
		Arrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	34.40	?
		Dandnagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	28.69	?
	Patna.	Sherrghat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.29	40.67
		Kasauli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	17.48	?
		Pakri Barwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	81.00	41.00
	NORTH BENGAL—continued.	Monghyr.	Patna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	81.80	41.80
Dinapore			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	45.33	44.70
Mehar			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	41.30	42.09
Monghyr.		Barr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	36.08	40.67
		Barham	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	41.48	?
		Hilsa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	30.04	?
South Bhagal-pore.		Reconneral	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	47.75	41.11
		Monghyr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	41.77	47.08
		Jatuli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	59.68	40.32
NORTH BENGAL—continued.		South Bhagal-pore.	Gopri	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	80.19
	Shahpura		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	48.32	?
	Bhagalpore		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	45.04	47.81
	South Bhagal-pore.	Barr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	34.30	44.34
		Kripa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	48.07	?
		Bangson	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
	Sonthal Por-gunnah.	Rajmahal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	99.07	63.32
		Gudua	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	49.74	48.78
		Pahar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	74.45	50.45
	NORTH BENGAL—continued.	Sonthal Por-gunnah.	Nya Duma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	87.50	50.54
Dumra			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	40.42	48.20
Jamtara			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	45.16	60.41
Sonthal Por-gunnah.		Mohapara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	86.05	?
		Namchi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	87.02	?
		Pachamba	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	39.24	40.03
Hazaribagh.		(Girdi).	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	49.81	48.78
		Hazaribagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	36.06	48.78
		Santurrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	40.00	48.00
NORTH BENGAL—continued.		Hazaribagh.	Mahudi Hill.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	63.40	64.03
	Jhoomra Hill.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	82.03	?
	Barki		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	47.09	?
	Hazaribagh.	Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	40.00	?
		Karagula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
		Ranghar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
	Lohardaga.	Lohardaga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	48.73	49.80
		Ranchi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	49.23	44.78
		Palamu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	30.13	40.74
	NORTH BENGAL—continued.	Lohardaga.	Hilli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	31.50
Baluma			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
Kosminabad			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	44.79	?
Singbhoom.		Gorwah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	39.46	?
		Chyabam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	40.54	40.13
		Chakrachar-pore.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
Singbhoom.		Chakrachar-pore.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	69.16	?
		Chakrachar-pore.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	57.57	?
		Hazaribagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
Manbhoom.		Paralia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	44.46	51.64
	Gubundpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	34.06	40.71	
	Kachhumbh-pore.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	46.23	?	
NORTH BENGAL—continued.	Manbhoom.	Kachhumbh-pore.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	40.52	?
		Haradpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	51.30	?
		Jhaid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	58.43	?
	Manbhoom.	Chas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
		Chas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?
		Chas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00	?	?

Explanation.—Indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 22nd April 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 18TH
OF APRIL 1890.**

At the commencement of the present week weather was everywhere settled; south-westerly winds blow over the whole province, Dhubri being the only station reporting an easterly wind, temperature was above the normal, and rising rapidly in the north-east, but was falling slowly in Chutia Nagpur and part of South-West Bengal. The low-pressure area which extended along the foot of the hills on Saturday, the first day of the week, continued without much change relatively to the neighbouring parts, but pressure changes of considerable amount have been going on for the greater part of the week. During the first two days the changes were small; the low-pressure area contracted, and easterly winds commenced in Behar. Temperature was then from three to six degrees in excess in Behar, Chutia Nagpur, the upper part of South-West Bengal, and the lower part of North Bengal, while along the eastern boundary and at the head of the Bay there was either a small excess or defect ranging up to 3° at Cuttack. On Monday, the 14th, a rapid fall of pressure set in, the changes in North Behar and North Bengal in some cases exceeding a tenth of an inch. On the following two days pressure rose briskly but uniformly, and the effect of the previous rapid fall continued on these two days in south-easterly winds prevailing over the eastern half of the province. The only district where winds were not south or south-east was Chutia Nagpur. Rain began to fall in North Bengal on Tuesday, extending on Wednesday to East Bengal and the eastern parts of South-West Bengal, where fairly general, and in some cases heavy, rain fell till the end of the week. With the commencement of rainfall temperature fell in North and East Bengal, but in the other districts, where rain was almost entirely absent, the change of temperature was insignificant, a large excess being general. On Thursday pressure again fell briskly and a distinct depression formed in the North-West Provinces, covering part of Behar and Chutia Nagpur. The increase in the amount of rainfall in North and East Bengal was due to the unsettled weather that resulted, and a few scattered showers fell in North Behar and Orissa, while rain was fairly general in Nuddea, Khulna, and Jessore, and in part of the Moorsshedabad district, on Friday. Thus the week ended with more seriously disturbed weather than has been experienced this season in Bengal, the interaction of the south-westerly winds from Chutia Nagpur with the south-easterly winds in Lower Bengal and the north-east winds in North Bengal, along with the continuance of this arrangement for some days, having caused general and for the season heavy rain over the whole of the eastern half of the province.

Pressure—Changes have been fairly large, with the exception of the first two days and the last day of the week. On Monday the 14th there was a rapid fall followed by a brisk rise on the 15th and 16th. On the 17th there was again a brisk to rapid fall, and on Friday the 18th slight irregular changes. On the 14th and 15th, and again on the 17th and 18th, there was defect of over a twentieth of an inch, but on the other days the differences from the normal were very slight. The means for the week are all below the normal, the largest differences being about a twentieth of an inch in South-West Bengal and Behar, and the smallest two to three-hundredths of an inch in Orissa and the neighbouring part of South West Bengal.

Temperature—Has been subject to rather large changes and the distribution has been irregular. Thus at Cuttack, Calcutta, Dacca, and Darjeeling the mean maximum temperature is below the normal, while at Burdwan, Patna, Purneah, and Hazaribagh there has been excess of from 3.5° to 4.5° . The night temperatures have been all above the normal except at Dacca, the largest being 5° at Gya. The means for the large divisions are slightly below the normal in two cases—Orissa and East Bengal, and above the normal in the others from 2° to 3.5° .

The actual temperatures during the week, the range from day to night, and their variations from the normals are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 18th April 1890.

	Normal mean maximum temperature for the week ending 18th April.	Actual mean maximum temperature for the week ending 18th April 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 18th April.	Actual mean minimum temperature for the week ending 18th April 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 18th April.	Actual mean daily temperature for the week ending 18th April 1890.	Variation of actual mean from the normal.
Onitack	103.3	101.1	-2.2	78.1	78.8	+0.7	90.8	90.0	-0.8
Calcutta	96.9	95.1	-1.8	75.5	77.8	+2.3	86.2	86.1	-0.1
Dacca	94.0	93.3	-0.7	75.6	75.6	0.0	84.8	83.8	-1.0
Burdwan	101.1	104.1	+3.0	75.9	77.9	+2.0	88.3	90.9	+2.6
Patna	101.3	105.6	+4.3	76.1	79.1	+3.0	87.6	90.8	+3.2
Gya	102.0	106.6	+4.6	76.0	79.1	+3.1	89.4	92.8	+3.4
Purneah	100.0	101.6	+1.6	69.3	71.7	+2.4	84.6	86.6	+2.0
Hazaribagh	97.3	101.3	+4.0	72.4	76.1	+3.7	84.6	85.7	+1.1
Darjeeling	83.6	83.1	-0.5	66.0	69.8	+3.8	80.3	80.4	+0.1

Rainfall—Commenced on Tuesday in North and East Bengal, but the showers on that day were slight and scattered. The area and amount both increased on Wednesday, and on Thursday and Friday, the 17th and 18th, general rain fell in those two districts and in part of South-West Bengal, but in Behar, Chutia Nagpur, Orissa, and the western half of South-West Bengal very little rain has fallen. Thunderstorms have in some cases been severe, and in one case in the Mymensingh district the storm approached in violence to a tornado, but as it did not pass near any observatory, no details have been received. The largest falls are 4·8 inches at Nattore, 3·3 inches at Lalgaia, and about 3 inches at Narnungunge, Dacca, Munshigunge, and Agartala. The means are 1·3 inches in East Bengal, 0·85 in North Bengal, 0·28 in South-West Bengal, and in the other districts under a tenth of an inch except in Chutia Nagpur, where no rain has fallen.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 18th of April 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages of week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.	Since 18th May 1889.		
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.				
Orissa	104°6	74°8	91°8	78°5	85°2	-0°3	0°09	0°27	-0°18	0°3	0°7	-0°4	0°09	0°09	64°61	66°09
South-West Bengal	110°1	66°5	101°9	77°5	89°7	+2°0	0°28	0°40	-0°12	0°4	0°8	-0°4	0°40	0°34	83°84	85°30
East Bengal	98°1	66°2	81°1	74°0	82°0	-0°4	1°20	0°03	+0°65	1°5	1°2	+0°0	1°00	1°11	80°40	79°72
North Bengal*	106°8	63°2	87°9	74°0	85°0	+1°2	0°26	0°23	+0°03	1°4	0°8	+0°6	1°06	0°70	75°83	72°26
North Behar	106°2	64°0	101°2*	71°4	86°4	+2°3	0°04	0°17	-0°13	0°3	0°4	-0°1	0°04	0°29	58°04	60°39
South Behar	109°3	70°0	100°2	78°0	89°6	+3°0	0°08	0°10	-0°02	0°3	0°3	-0°1	0°06	0°21	44°09	44°02
Chutia Nagpur	103°1*	71°4	100°0*	78°2*	86°1*	+3°5	Nil	0°11	-0°11	0°0	0°0	-0°4	Nil	0°20	44°10	

* Dinapore, Durbhanga, and Chyabasa not included.

METEOROLOGICAL OFFICE, BENGAL ;

The 22nd April 1890.

O. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 13th to 19th April 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
April 1890...	13th	29·834	86·4	95·0	17·2	77·8	89·6	81·4	·962	79·1	69	Nil.
"	14th	756	90·4	102·0	23·2	78·8	91·1	81·5	·947	77·6	66	"
"	15th	782	87·2	96·0	17·7	78·2	89·6	81·5	·967	78·2	70	"
"	16th	798	86·4	95·0	17·2	77·8	90·6	81·5	·964	77·8	67	"
"	17th	757	87·1	96·0	17·8	78·2	90·6	80·5	·966	76·3	63	"
"	18th	792	89·2	91·5	16·7	74·8	78·6	74·5	·961	72·5	82	"
"	19th	846	86·4	96·0	21·2	74·8	90·6	80·5	·966	76·2	63	"

The mean 10 A.M. pressure of the seven days Inches. 29·795

The mean temperature of the seven days 86·6

The extreme variation of temperature 27·2

The maximum temperature 102·0

The mean 10 A.M. relative humidity of the seven days % 68

The total fall of rain from 13th to 19th April 1890 Inches. Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 21st April 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
13th to 19th April 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
April	13th	151.1	6.0	29.787	85.8	93.9	16.6	77.3	79.1	0.908	76.3	74	SSW	204	Nil	Partially cloudy.
	14th	155.8	6.2	679	87.6	101.5	23.1	78.4	78.7	863	74.8	68	SSW, SW and S	203	"	Partially cloudy.
	15th	147.7	5.9	700	86.8	94.9	17.3	77.6	78.7	837	76.6	72	S and SSW	151	"	Chiefly cloudy.
	16th	148.2	9.0	711	85.5	94.1	16.7	77.4	77.8	850	74.8	69	SSW and S	215	"	Partially cloudy. o.
	17th	150.5	9.4	674	86.5	94.3	16.6	77.7	78.9	885	76.5	71	SSW and S	200	"	Partially cloudy.
	18th	145.3	2.4	717	83.0	91.7	17.5	74.2	76.2	821	73.3	73	SE, SSE and variable.	166	"	Chiefly cloudy. o, t, <.
	19th	151.6	9.1	793	85.1	98.6	19.5	74.3	76.2	784	71.9	64	SSW, S and variable	174	Not measurable.	Chiefly cloudy. o, t, <, d.

The mean pressure of the seven days ... 29.716
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.746

Hours.
 The total number of hours of bright sunshine ... 48.7
 The maximum possible number of hours of sunshine ... 88.5

°
 The mean temperature of the seven days ... 85.6
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 85.0
 The extreme variation of temperature ... 27.3
 The maximum temperature ... 101.5

Miles.
 The highest velocity of the wind in one hour ... 16

lbs.
 The highest pressure of wind on one square foot ... Approximately 3
 %
 The mean relative humidity ... 70

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 69

Inches.
 The total fall of rain from 13th to 19th April 1890 ... Nil
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.21
 The total fall from 1st January to 19th April 1890 ... 1.10
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.60

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h. and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, t thunder, < lightning, d drizzling rain.

N.B.—In the weekly report from 23rd to 29th March 1890, read 60 for 70 as the humidity of the 28th March 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 21st April 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 5th April 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 5th April 1890, in twenty-seven principal towns of Bengal, excluding one (Hughli and Chinsurah) from which no return has yet been received, correspond to an annual rate of 14.2 per 1,000 of the aggregate population of the twenty-six towns, which is 1,029,887. This rate is 6.3 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years—*cide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	20.5	21.1	17.6	18.9	21.3	20.6	14.2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	1st March 1890.	2nd March 1890.	3rd March 1890.	4th April 1890.		1st March 1890.	2nd March 1890.	3rd March 1890.	4th April 1890.
Bardwan	18.3	24.4	24.6	25.9	Narainganj	25.1	29.0	16.6	20.7
Midnapore	20.1	17.0	25.3	10.3	Chittagong	14.1	11.7	9.6	4.7
Hughli and Chinsurah	19.7	26.0	25.0	Data not recd.	Comillah	50.1	23.5	21.3	20.1
Serampore	22.3	21.6	47.2	23.4	Patna	18.9	8.8	12.3	6.8
Uttarpara	22.3	47.2	28.3	9.4	Gya	19.1	20.3	19.1	16.4
Howrah	25.3	21.3	19.3	16.6	Arrah	22.9	24.3	17.9	12.1
Bali	7.0	11.1	17.3	7.0	Monsiehpore	14.6	22.6	13.4	9.7
Kishnaghur	22.7	11.4	24.6	9.5	Durbhanga	13.7	25.2	16.1	16.1
Ranaghat	6.0	41.9	15.0	15.0	Chupra	16.1	23.1	14.1	14.1
Santipore	21.0	25.0	29.3	14.0	Bhagulpore	20.8	16.3	13.6	10.9
Jessore	24.3	30.6	18.4	12.2	Monghyr	31.8	20.7	20.2	20.2
Rampore Beaulah	47.3	21.6	21.0	20.2	Purneah	20.8	8.4	27.7	13.8
Darjiling	14.3	...	27.0	14.3	Poori	14.7	23.6	20.4	11.6
Dacca	9.7	25.4	20.8	8.4					

It will be seen that last week the highest birth-rate was returned from Comillah (50.1) and the lowest from Chittagong (4.7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 21.5 per 1,000 of the population. The rate of the week is 2.9 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1886—*cide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	24.3	21.0	25.3	22.1	24.9	24.4	21.5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	1st March 1890.	2nd March 1890.	3rd March 1890.	4th April 1890.		1st March 1890.	2nd March 1890.	3rd March 1890.	4th April 1890.
Bardwan	24.4	22.9	24.4	27.6	Narainganj	8.3	6.1	8.3	8.3
Midnapore	26.3	20.6	25.7	12.4	Chittagong	9.4	11.7	7.0	4.7
Hughli and Chinsurah	21.3	23.0	27.7	Data not recd.	Comillah	68.9	45.4	40.3	27.0
Serampore	27.3	47.1	17.7	27.3	Patna	11.7	12.3	17.4	11.6
Uttarpara	22.3	47.2	28.3	23.4	Gya	64.5	61.0	60.8	70.9
Howrah	25.3	21.3	19.3	22.9	Arrah	12.8	14.6	16.7	9.8
Bali	7.0	11.1	17.3	7.0	Monsiehpore	14.6	22.6	13.4	9.7
Kishnaghur	22.7	11.4	24.6	9.5	Durbhanga	13.7	25.2	16.1	16.1
Ranaghat	6.0	41.9	15.0	15.0	Chupra	16.1	23.1	14.1	14.1
Santipore	21.0	25.0	29.3	14.0	Bhagulpore	20.8	16.3	13.6	10.9
Jessore	24.3	30.6	18.4	12.2	Monghyr	31.8	20.7	20.2	20.2
Rampore Beaulah	47.3	21.6	21.0	20.2	Purneah	20.8	8.4	27.7	13.8
Darjiling	14.3	...	27.0	14.3	Poori	14.7	23.6	20.4	11.6
Dacca	9.7	25.4	20.8	8.4					

It will be seen that last week the highest mortality occurred in the town of Gya (79·2) and the lowest in Chittagong (4·7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows:—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Comillah ...	15·4	Gya ...	60·8	Gya ...	17·0
Howrah ...	6·8	Rampore Beaulah ...	21·0	Poori ...	12·6
				Serampore ...	11·8

The total mortality from the several registered death-causes in the twenty-six towns amounted to 1·5 from cholera, against 2·4 per 1,000 in the preceding week; 5 from small-pox, against 1·1; 12·1 from fever, against 10·8; 1·9 from bowel-complaints, against 1·7; 3 from injury, against 5; and 5·2 from other causes, against 6·7 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	19·6	Christians ...	20·9	Under 1 year	135·4
Females ...	23·4	Hindus ...	21·9	1 and under 5 years	21·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	83	Mahomedans ...	20·4	5 " 10 "	10·6
				10 " 15 "	7·2
				15 " 20 "	13·9
				20 " 30 "	12·4
				30 " 40 "	11·6
				40 " 50 "	20·6
				50 " 60 "	24·3
				60 years and upwards	79·2

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal.

The 21st April 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending Sunday, the 5th April 1906.

[illegible]

DISTRICT.		NAMES OF MUNICIPALITIES.		Class.					Deaths.										Ratio per 1,000 of Population per Annum.									
				Deaths among—					Ratio per 1,000 of Population per Annum.					Ratio per 1,000 of Population per Annum.					Ratio per 1,000 of Population per Annum.									
				Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.
Bardwan	Bardwan	9	17	35	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Midnapore	Midnapore	7	17	35	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Hughli	Hughli and Chinsai	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Barrackpore	Barrackpore	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Howrah	Howrah	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Medinipur	Medinipur	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Jessore	Jessore	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Rajshahi	Rajshahi	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Darjiling	Darjiling	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Dacca	Dacca	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Chittagong	Chittagong	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Tipperah	Tipperah	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Patna	Patna	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Gya	Gya	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Shahabad	Shahabad	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Moulvibazar	Moulvibazar	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Durgha	Durgha	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Chupra	Chupra	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Shahjipore	Shahjipore	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Monghyr	Monghyr	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Purneah	Purneah	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Pool	Pool	17	35	117	117	117	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Total	Total	4	38	113	201	201	157	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

The 21st April 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagirath, and Brahmaputra for the month of January 1890.

Date.	Miles.	RIVER GANGES.										RIVER BHAGIRATH.	RIVER BRAHMAPUTRA.								
		Mirzapur.		Benares.		Buxar.		Monghyr.		Sahelganj.		Rampore Headab.		Gwalundo.		Berhampore.		Seringpore.		Gowhaty.	
		From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.	From Allahabad.	Height over mean sea-level.
1st		307	207.49	307	207.49	307	207.49	307	207.49	307	207.49	307	207.49	307	207.49	307	207.49	307	207.49	307	207.49
2nd		308	208.50	308	208.50	308	208.50	308	208.50	308	208.50	308	208.50	308	208.50	308	208.50	308	208.50	308	208.50
3rd		309	209.51	309	209.51	309	209.51	309	209.51	309	209.51	309	209.51	309	209.51	309	209.51	309	209.51	309	209.51
4th		310	210.52	310	210.52	310	210.52	310	210.52	310	210.52	310	210.52	310	210.52	310	210.52	310	210.52	310	210.52
5th		311	211.53	311	211.53	311	211.53	311	211.53	311	211.53	311	211.53	311	211.53	311	211.53	311	211.53	311	211.53
6th		312	212.54	312	212.54	312	212.54	312	212.54	312	212.54	312	212.54	312	212.54	312	212.54	312	212.54	312	212.54
7th		313	213.55	313	213.55	313	213.55	313	213.55	313	213.55	313	213.55	313	213.55	313	213.55	313	213.55	313	213.55
8th		314	214.56	314	214.56	314	214.56	314	214.56	314	214.56	314	214.56	314	214.56	314	214.56	314	214.56	314	214.56
9th		315	215.57	315	215.57	315	215.57	315	215.57	315	215.57	315	215.57	315	215.57	315	215.57	315	215.57	315	215.57
10th		316	216.58	316	216.58	316	216.58	316	216.58	316	216.58	316	216.58	316	216.58	316	216.58	316	216.58	316	216.58
11th		317	217.59	317	217.59	317	217.59	317	217.59	317	217.59	317	217.59	317	217.59	317	217.59	317	217.59	317	217.59
12th		318	218.60	318	218.60	318	218.60	318	218.60	318	218.60	318	218.60	318	218.60	318	218.60	318	218.60	318	218.60
13th		319	219.61	319	219.61	319	219.61	319	219.61	319	219.61	319	219.61	319	219.61	319	219.61	319	219.61	319	219.61
14th		320	220.62	320	220.62	320	220.62	320	220.62	320	220.62	320	220.62	320	220.62	320	220.62	320	220.62	320	220.62
15th		321	221.63	321	221.63	321	221.63	321	221.63	321	221.63	321	221.63	321	221.63	321	221.63	321	221.63	321	221.63
16th		322	222.64	322	222.64	322	222.64	322	222.64	322	222.64	322	222.64	322	222.64	322	222.64	322	222.64	322	222.64
17th		323	223.65	323	223.65	323	223.65	323	223.65	323	223.65	323	223.65	323	223.65	323	223.65	323	223.65	323	223.65
18th		324	224.66	324	224.66	324	224.66	324	224.66	324	224.66	324	224.66	324	224.66	324	224.66	324	224.66	324	224.66
19th		325	225.67	325	225.67	325	225.67	325	225.67	325	225.67	325	225.67	325	225.67	325	225.67	325	225.67	325	225.67
20th		326	226.68	326	226.68	326	226.68	326	226.68	326	226.68	326	226.68	326	226.68	326	226.68	326	226.68	326	226.68
21st		327	227.69	327	227.69	327	227.69	327	227.69	327	227.69	327	227.69	327	227.69	327	227.69	327	227.69	327	227.69
22nd		328	228.70	328	228.70	328	228.70	328	228.70	328	228.70	328	228.70	328	228.70	328	228.70	328	228.70	328	228.70
23rd		329	229.71	329	229.71	329	229.71	329	229.71	329	229.71	329	229.71	329	229.71	329	229.71	329	229.71	329	229.71
24th		330	230.72	330	230.72	330	230.72	330	230.72	330	230.72	330	230.72	330	230.72	330	230.72	330	230.72	330	230.72
25th		331	231.73	331	231.73	331	231.73	331	231.73	331	231.73	331	231.73	331	231.73	331	231.73	331	231.73	331	231.73
26th		332	232.74	332	232.74	332	232.74	332	232.74	332	232.74	332	232.74	332	232.74	332	232.74	332	232.74	332	232.74
27th		333	233.75	333	233.75	333	233.75	333	233.75	333	233.75	333	233.75	333	233.75	333	233.75	333	233.75	333	233.75
28th		334	234.76	334	234.76	334	234.76	334	234.76	334	234.76	334	234.76	334	234.76	334	234.76	334	234.76	334	234.76
29th		335	235.77	335	235.77	335	235.77	335	235.77	335	235.77	335	235.77	335	235.77	335	235.77	335	235.77	335	235.77
30th		336	236.78	336	236.78	336	236.78	336	236.78	336	236.78	336	236.78	336	236.78	336	236.78	336	236.78	336	236.78
31st		337	237.79	337	237.79	337	237.79	337	237.79	337	237.79	337	237.79	337	237.79	337	237.79	337	237.79	337	237.79

G. A. G. SHAW, Under-Secretary to the Govt. of Bengal.

CALCUTTA, The 21st April 1890.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of January 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG " 4 "

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity--Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
16	1. Grain ...	44	81	125	7,430	125	7,430	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	.....	15	15	1,260	15	1,260	
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
20	7. Building materials ...	.....	372	372	423	7	20	
7	8. Miscellaneous ...	.....	69	69	390	69	390	
1	9. Fuel ...	.....	4	4	25	4	25	
7 rafts	10. Timber No.	.....	60	60	142	60	142	
9 "	11. Bamboos "	.....	6,800	6,800	136	6,800	136	
6 boats	12. Total ...	{ 44	541 &	585 &	{ 9,806 }	220 &	{ 9,403 }	
8 rafts.		{	6,860 No.	6,860 No.		6,860 No.		
2 boats	13. Total of same	{ 55	680 &	735 &	{ 6,686 }	171 &	{ 6,107 }	
2 rafts.	month last year.	{	12,116 No.	12,116 No.		12,116 No.		
		Up.	Down.	Total.			Rs. A. P.	
4.	Total number of boats plying cargo No.	9	37	46	Total tollage of month— 24 + 25 + 26 + 26½ ...		223 12 2	
5.	Total number of boats plying passenger No.	7	1	8				
54.	Total empty boats "	34	18	52	Total tollage of same month last year ...		498 2 6	
6.	Total registered tonnage, cargo, private Tons	75	284	359				
64.	Ditto ditto, Government Tons	.....	597	597	Memorandum of Tollage.			
7.	Total registered tonnage, passenger Tons	168	1	169				
74.	Ditto ditto, empty "	343	174	517				
8.	Ton-mileage ...	6,888	13,164	20,052				
9.	Estimated value of cargo Rs.	5,180	4,348	9,528				
10.	Number of passengers ...	390	2	392				
1.	Rafts, bamboos No.	.....	6,800	6,800				
2.	Do., bullahs "	.....	60	60				
3.	Estimated value of rafts Rs.	.....	278	278				
4.	Tollage on boats "	66-7-0	138-3-0	204-10-0				
5.	Compounded tollage on boats Rs.	.....	.....	.....	
6.	Tollage on rafts "	.....	12-4-2	12-4-2				
7.	Demurrage of three boats "	6-14-0	.....	6-14-0				
8.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-95				
9.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	
							Rs. A. P.	
					1. Balance not recovered on the 1st of the month ...		1 0 0	
					2. Tollage per month ...		223 12 2	
					3. Total ...		224 12 2	
					4. Amount credited in the accounts of the month ...		222 2 2	
					5. Balance due at the end of the month ...		2 10 0	

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.	
		Quantity—Tons.			Quantity.	Value.
		Up.	Down.	Total.	Tons.	Rupces.
236	1. Grain ...	514	2,416	2,930	2,10,100	2,10,100
2	2. Cotton ...	.....	9	9	2,400	2,400
5	3. Oilseeds ...	2	62	64	11,080	11,080
25	4. Salt ...	56	42	98	11,650	11,650
...	5. Piece-goods ...	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....
84	7. Building materials ...	.....	1,234	1,234	16,460	15,110
132	8. Miscellaneous ...	992	391	1,383	2,78,110	2,78,110
6	9. Fuel ...	15	.....	15	1,040	1,040
13 rafts	10. Timber ...	.....	11,076 c. ft.	11,076 c. ft.	2,990	2,990
13 "	11. Bamboos ...	.....	7,425 "	7,425 "	700	700
490 & 26 rafts.	12. Total ...	{ 1,579	4,154 & 18,501 c. ft.	5,733 & 18,501 c. ft.	5,34,530 { 5,006 & 18,501 c. ft.	5,33,180
894 & 43 rafts.	13. Total of same month last year.	{ 1,068	1,996 & 69,217 No.	3,064 & 69,217 No.	3,69,460 { 3,054 & 69,217 No.	3,69,420
14. Total number of boats plying cargo	No.	203	287	490	Total tollage of month— 24 + 25 + 26 ... 8,060 9	
15. Total number of boats plying passenger	No.	68	73	141		
15½. Ditto empty boats	"	353	169	522		
16. Total registered tonnage, cargo, private	Tons	2,844	6,232	9,076	Total tollage of same month last year ... 5,374 6	
16½. Ditto ditto, Government	"	.....	1,113	1,113		
17. Total registered tonnage, passenger	Tons	2,545	1,852	4,397		
17½. Ditto ditto empty boats	"	2,814	546	3,360	Memorandum of Tollage.	
18. Ton-mileage	...	299,135	465,285	764,420		
19. Estimated value of cargo	Rs.	2,76,110	2,54,730	5,30,840		
20. Number of passengers	...	3,250	3,011	6,261	1. Balance not recovered on the 1st of the month ... 4,742 12	
21. Rafts, bamboos	C. ft.	.....	7,425	7,425		
22. Do., timber	"	...	11,076	11,076		
23. Estimated value of rafts	Rs.	.....	3,690	3,690	2. Tollage per month ... 8,060 9	
24. Tollage on boats	"	3,037-8-8	4,880-4-10	7,917-13-6		
25. Compounded tollage on boats	Rs.	.....	.....	.....
26. Tollage on rafts	"	.....	142-11-8	142-11-8	3. Total ... 12,803 5	
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-2 0		
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-12-4		
					4. Amount credited in the accounts of the month ... 5,772 1	
					5. Balance due at the end of the month ... 7,031 4	

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.
168	1. Grain ...	469	.....	469	31,130	469	31,130
6	2. Cotton ...	5	4	9	2,500	9	2,500
23	3. Oilseeds ...	54	.....	54	4,570	54	4,570
54	4. Salt ...	.....	142	142	11,940	142	11,940
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
31	7. Building materials ...	106	80	186	970	106	750
65	8. Miscellaneous ...	107	69	176	9,890	176	9,890
23	9. Fuel ...	184	.....	184	510	184	510
12 rafts	10. Timber ...	13,272 c. ft.	138	13,410 c. ft.	4,570	13,410 c. ft.	4,570
4 "	11. Bamboos ...	.....	1,812 c. ft.	1,812 "	110	1,812 "	110
370 & 16 rafts.	12. Total ...	{ 925 & 13,272 c. ft.	295 & 1,950 c. ft.	1,220 & 15,222 c. ft.	{ 66,190	{ 1,140 & 15,222 c. ft.	{ 65,970
289 & 8 rafts.	13. Total of same month last year ...	716 & 582 No.	205 & 15,900 No.	921 & 16,482 No.	{ 56,060	{ 836 & 16,482 No.	{ 55,820
		Up.	Down.	Total.			
14. Total number of boats ply- ing cargo No.		283	87	370	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 900 10 1
15. Total number of boats ply- ing passenger No.		2	5	7	Total tollage of same month last year ...		643 12 6
15½. Ditto empty boats "		59	225	284	Memorandum of Tollage.		
16. Total registered tonnage, cargo, private Tons		1,926	503	2,429			
16½. Ditto ditto, Government "		.....	156	156			
17. Total registered tonnage, passenger Tons		19	33	52			
17½. Ditto empty boats "		203	845	1,048			
18. Ton-mileage ...		51,965	34,094	86,059			
19. Estimated value of cargo Rs.		40,620	20,890	61,510			
20. Number of passengers ...		14	26	40			
21. Rafts, bamboos C. ft.		.....	1,812	1,812			
22. Do., timber "		13,272	138	13,410			
23. Estimated value of rafts Rs.		4,520	160	4,680			
24. Tollage on boats "		511-9-10	245-9-3	757-3-1			
25. Compounded tollage on boats Rs.		.....	.....	.....
26. Tollage on rafts "		134-13-9	8-9-3	143-7-0			
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-7			
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-15-0			
					1. Balance not recovered on the 1st of the month ...		363 2 7
					2. Tollage per month ...		900 10 1
					3. Total ...		1,263 12 8
					4. Amount credited in the accounts of the month		1,006 6 1
					5. Balance due at the end of the month ...		257 6 7

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
55	1. Grain ...	151½	1	152½	152½	8,321	
1	2. Cotton ...	1	.....	1	1	140	
2	3. Oilseeds ...	4	4	8	8	768	
9	4. Salt ...	.....	36½	36½	36½	5,110	
48	5. Piece-goods ...	.....	49½	49½	49½	13,860	
...	6. Metal ...	.....	.....	.....	.....	.....
7	7. Building materials ...	.....	73½	73½	.....	32	
11	8. Miscellaneous ...	5	37	42	42	5,358	
32	9. Fuel ...	.....	201½	201½	7½	22	
27 rafts	10. Timber, 1,061 No	222 c. ft.	6,144 c. ft.	6,366 c. ft.	6,366 c. ft.	3,102	
6 "	11. Bamboos 4,100 "	.....	4,100 No.	4,100 No.	4,100 No.	123	
165	12. Total ...	{ 161½ 222	{ 403 6,144 c. ft. 4,100 No.	{ 564½ 6,366 c. ft. 4,100 No.	{ 297 6,366 c. ft. 4,100 No.	{ 37,407 36,804	
33 rafts.							
145	13. Total of same month last year.	{ 255½	{ 33½ & 5,130 c. ft. 36,550 No.	{ 594 5,130 c. ft. 36,550 No.	{ 396½ 5,130 c. ft. 36,550 No.	{ 33,429 32,560	
65 rafts.							
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	58	107	165	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 299 15 0
15.	Total number of boats plying passenger ... No.	1	1	2			
15½.	Ditto empty boats ...	112	59	171	Total tollage of same month last year ...		281 11 6
16.	Total registered tonnage, cargo and boat Tons	323	270	593			
16½.	Ditto of Govt. boat ...	.....	536	536	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	6	3	9			
17½.	Ditto of empty do. ...	417½	144	561½			Rs. A. P.
18.	Ton-mileage ...	9,564	11,542	21,106	1. Balance not recovered on the 1st of the month ...		.....
19.	Estimated value of cargo Rs.	9,398	24,789	34,182			
20.	Number of passengers ...	406½	268½	675	2. Tollage per month ...		299 15 0
21.	Rafts, bamboos No.	.....	4,100	4,100			
22.	Do., bullahs C. ft.	222	6,144	6,366	3. Total ...		299 15 0
23.	Estimated value of rafts Rs.	30	3,195	3,225			
24.	Tollage on boats ...	91-12-6	159-7-0	251-3-6	4. Amount credited in the accounts of the month ...		300 4 0
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ...	0-9-9	48-1-9	48-11-6			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-2			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-0	5. Balance due at the end of the month ...		0 5 0

* This excess remitted by the Toll Collector.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
31	1. Grain ...	71	3	74	4,747	74	4,747
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
1	4. Salt ...	.....	2½	2½	460	2½	460
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
2	7. Building materials ...	.....	11½	11½	105	.....	.....
6	8. Miscellaneous ...	.....	29	29	1,759	29	1,759
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
3 rafts	10. Timber ...	.....	234 c. ft.	234 c. ft.	104	234 c. ft.	104
1 raft	11. Bamboos ...	.....	50 No.	50 No.	2	50	2
40 & 4 rafts.	12. Total ...	{ 71	{ 46 50 No. 234 c. ft.	{ 117 50 No. 234 c. ft.	{ 7,177	{ 105½ 50 No. 234 c. ft.	{ 7,072
79 & 6 rafts.	13. Total of same month last year.	{ 101	{ 28½ & 7,872 c. ft.	{ 129½ & 7,872 c. ft.	{ 9,674	{ 120½ & 7,872 c. ft.	{ 9,425

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	30	10	40	Total tollage of month— 24 + 25 + 26 ...	53 4 0
15. Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year ...	93 5 6
15½. Ditto empty ditto „	10	29	39		
16. Total registered tonnage, cargo and boat Tons	142	69	211		
16½. Ditto Govt. boat „	.....	23	23		
17. Total registered tonnage, passenger Tons	.....	.....	.....
17½. Ditto empty ditto „	45	64	109		
18. Ton-mileage ...	2,514	1,862	4,376		
19. Estimated value of cargo Rs.	4,312	2,759	7,071		
20. Number of passengers ...	333	272	605		
21. Rafts, bamboos No.	.....	50	50		
22. Do., bullahs O. ft.	... ..	234	234		
23. Estimated value of rafts Rs.	.....	106	106		
24. Tollage on boats „	29-10-3	21-7-6	51-1-9		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	2-2-3	2-2-3		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-8½		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-14-6		
				1. Balance not recovered on the 1st of the month ...	.....
				2. Tollage per month ...	53 4 0
				3. Total ...	53 4 0
				4. Amount credited in the accounts of the month ...	53 4 0
				5. Balance due at the end of the month ...	Nil

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupess.	
...	1. Grain	.....	.....	.....	.....	.....
...	2. Cotton	.....	.....	.....	.....	.....
...	3. Oilseeds	.....	.....	.....	.....	.....
1	4. Salt	5	.....	5	408	5	408
2	5. Piece-goods	.....	4	4	1,120	4	1,120
...	6. Metal	.....	.....	.....	.....	.....
...	7. Building materials	.....	.....	.....	.....	.....
22	8. Miscellaneous	.....	13½	13½	2,054	13½	2,054
...	9. Fuel	.....	.....	.....	.....	.....
11 Rafts	10. Timber, 359 No.	.....	2,154	2,154 c. ft.	173	2,154 c. ft.	173
3 "	11. Bamboos No.	.....	4,100	4,100	123	4,100	123
25 No.	12. Total	{ 5	{ 17½ 2,154 c. ft.	{ 22½ 2,154 c. ft.	{ 3,878	{ 22½ & 2,154 c. ft.	{ 3,878
14 Rafts.			{ 4,100 No.	{ 4,100 No.		{ 4,100 No.	
15 No.	13. Total of same	{ 35 &	.....	{ 35 &	{ 5,492	{ 24 &	{ 5,460
19 Rafts.	month last year.	{ 5,070 c. ft.		{ 5,070 c. ft.		{ 5,070 c. ft.	
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats ply- ing cargo No.	1	24	25	Total tollage of month— 24 + 25 + 26		17 5 8
15.	Total number of boats ply- ing passenger No.	.....	1	1			
15½.	Ditto empty ditto "	27	6	33	Total tollage of same month last year		16 6 2
16.	Total registered tonnage, cargo and boat Tons	10	35	45			
16½.	Ditto Govt. boat "	.....	.....	.....
17.	Total registered tonnage, passenger Tons	.....	3	3	Memorandum of Tollage.		
17½.	Ditto empty ditto "	38	21	59			
18.	Ton-mileage	288	336	624	1. Balance not recovered on the 1st of the month		.....
19.	Estimated value of cargo Ra.	408	3,174	3,582	2. Tollage per month		17 5 8
20.	Number of passengers	107½	75½	181	3. Total		17 5 8
21.	Rafts, bamboos No.	.....	4,100	4,100			
22.	Do., bullahs C. ft.	.....	2,154	2,154			
23.	Estimated value of rafts Ra.	.....	296	296	4. Amount credited in the accounts of the month		17 5 8
24.	Tollage on boats	3-7-6	6-4-0	9-11-6			
25.	Compounded tollage on boats Ra.	.....	.....	.....	5. Balance due at the end of the month		Nil
26.	Tollage on rafts	.....	7-10-2	7-10-2			
27.	Total tollage on boats per ton-mile Ra.	.....	.....	0-0-3-99			
28.	Total tollage on rafts per 100 cubic feet Ra.	.....	.....	0-5-2			

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
951	1. Grain ...	5,157	366	5,523	2,64,507	5,523	2,64,507	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
11	3. Oilseeds ...	99	19	118	10,013	118	10,013	
84	4. Salt ...	.....	670	670	69,670	670	69,670	
11	5. Piece-goods ...	2	56	58	1,61,460	58	1,61,460	
24	6. Metal ...	106	125	231	1,73,285	231	1,73,285	
15	7. Building materials ...	90	7	97	596	22	186	
254	8. Miscellaneous ...	446	592	1,038	7,53,673	1,038	7,53,673	
13	9. Fuel ...	53	52	105	898	105	898	
70 rafts	10. Timber ...	14,704 c. ft.	261 c. ft.	14,965 c. ft.	7,524	14,965 c. ft.	7,524	
8 "	11. Bamboos ...	1,866 "	200 "	2,066 "	204	2,066 "	204	
1,366 & 8 rafts.	12. Total ...	{ 5,953 & 16,570 c. ft.	{ 1,887 & 464 c. ft.	{ 7,840 & 17,034 c. ft.	{ 14,41,830	{ 7,765 & 17,034 c. ft.	{ 14,41,420	
1,016 & 9 rafts.	13. Total of same month last year.	{ 9,081 & 39,600 c. ft.	{ 2,043 & 299 c. ft.	{ 11,124 & 39,899 c. ft.	{ 11,00,937	{ 11,124 & 39,899 c. ft.	{ 11,00,937	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	1,054	312	1,366	Total tollage of month— 24 + 25 + 26 ...			11,043 10 6
15.	Total number of boats plying passenger No.	465	577	1,042	Total tollage of same month last year ...			16,125 1 0
154.	Ditto empty "	451	770	1,221				
16.	Total registered tonnage, cargo Tons	14,748	4,118	18,866	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	3,798	3,474	7,272				
174.	Ditto empty "	1,960	3,613	5,573				Rs. A. P.
18.	Ton-mileage	4,65,736	2,26,135	6,91,871	1. Balance not recovered on the 1st of the month ...			6,886 11 1
19.	Estimated value of cargo Rs.	10,13,886	4,20,216	14,34,102	2. Tollage per month ...			11,043 10 6
20.	Number of passengers ...	5,183	8,150	13,333	3. Total ...			17,930 5 7
21.	Rafts, bamboos C. ft.	1,866	200	2,066				
22.	Do., bullahs "	14,704	264	14,968				
23.	Estimated value of rafts Rs.	7,015	713	7,728				
24.	Tollage on boats	7,285-10-3	3,492-1-0	10,777-11-3				
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...			14,189 4 3
26.	Tollage on rafts	263-4-0	2-11-3	265-15-3				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-9				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-9-0	5. Balance due at the end of the month ...			3,741 1 4

HIDGELLER TIDAL CANAL

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity - Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupess.	Tons.	
538	1. Grain ...	1,558	9	1,567	79,873	1,567	79,873
...	2. Cotton ...	...	...	...	...	...	...
2	3. Oilseeds ...	...	4	4	330	4	330
6	4. Salt ...	...	41	41	4,200	41	4,200
1	5. Piece-goods ...	...	1	1	800	1	800
2	6. Metal ...	18	11	29	6,000	11	3,090
28	7. Building materials ...	7	134	141	7,496	141	7,496
574	8. Miscellaneous ...	102	91	193	20,839	189	20,539
11	9. Fuel ...	...	194	194	1,857	194	1,857
4 rafts	10. Timber ...	...	126 c. ft.	126 c. ft.	129	126 c. ft.	129
2 "	11. Bamboos ...	...	200 "	200 "	24	200 "	24
1,162 & 6 rafts.	12. Total ..	{ 1,685	485 & 326 c. ft.	2,170 & 326 c. ft. }	1,21,548	{ 2,148 & 326 c. ft }	1,18,248
1,144 & 15 rafts.	13. Total of same month last year.	{ 2,662 & 1,892 c. ft.	639 & 4,292 c. ft.	3,301 & 6,184 c. ft. }	1,81,748	{ 3,211 & 6,184 c. ft }	1,80,833
14. Total number of boats plying cargo	No.	631	531	1,162	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 1,517 6 9
15. Total number of boats plying passenger	No.	20	27	47	Total tollage of same month last year		2,783 15 0
16. Total registered tonnage, cargo	Tons	3,741	2,022	5,763	Memorandum of Tollage.		
17. Total registered tonnage, passenger	Tons	116	124	240			
18. Ton-mileage	...	55,567	30,930	86,497	Rs. A. P.		
19. Estimated value of cargo	Rs.	1,18,828	2,567	1,21,395			
20. Number of passengers	...	216	192	408	1. Balance not recovered on the 1st of the month	...	2,739 6 9
21. Rafts, bamboos	C. ft.	...	200	200	2. Tollage per month	...	1,517 6 9
22. Do., bullahs	"	...	126	126	3. Total	...	4,256 13 6
23. Estimated value of rafts	Rs.	...	153	153	4. Amount paid into treasury during the month	...	3,560 14 6
24. Tollage on boats	"	971-10-9	542-0-6	1,513-11-3	5. Balance due at the end of the month	...	695 15 0
25. Compounded tollage on boats	Rs.	...	0-5-6	0-5-6			
26. Tollage on rafts	"	...	3-6-0	3-6-0			
27. Total tollage on boats per ton-mile	Rs.	...	...	0-0-3 3			
28. Total tollage on rafts per 100 cubic feet	Rs.	...	...	1-0-6			

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
25	1. Grain ...	28	200	228	14,897	228	14,897	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
8	3. Oilseeds ...	1	132	133	15,904	133	15,904	
...	4. Salt ...	44	.....	44	4,940	44	4,940	
14	5. Piece-goods ...	89	7	96	36,255	96	36,255	
...	6. Metal ...	11	1	12	4,822	12	4,822	
11	7. Building materials ...	30	74	104	641	55	420	
82	8. Miscellaneous ...	110	412	522	41,565	315	41,244	
1	9. Fuel { boat	2	.....	2	50	2	50	
	rafts	.....	48	48	2-1	48	2-1	
...	10. Timber { boat	1	.....	1	70	1	70	
	rafts	.....	86	86	2,125	86	2,125	
11	11. Bamboos { boat	112	.....	112	4,675	112	4,675	
	rafts	.....	1,039	1,039	12,695	1,039	12,695	
152	12. Total ...	428	1,999	2,427	1,38,920	2,171	1,38,378	
136	13. Total of same month last year ...	484	1,495	1,943	1,44,254	1,680	1,42,590	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	54	98	152	Total tollage of month—24 + 25 + 26 ...			1,932 4 9
15.	Total number of boats plying passenger No.	6	5	11				
15½.	Ditto empty boats "	51	28	79	Total tollage of same month last year ...			1,545 12 9
16.	Total registered tonnage, cargo Tons	736	1,438	2,174				
17.	Total registered tonnage, passenger Tons	205	164	369				
17½.	Ditto empty boats "	207	131	338	Memorandum of Tollage.			
18.	Ton-mileage ...	51,694	1,64,531	2,16,225				Rs. A. P.
19.	Estimated value of cargo Rs.	68,254	55,565	1,23,819	1. Balance not recovered on the 1st of the month ...			399 10 4
20.	Number of passengers ...	381½	249½	631	2. Tollage per month ...			1,932 4 9
21.	Rafts, bamboos C. ft.	.....	1,55,803	1,55,803				
22.	Do., bullahs "	.....	10,077	10,077				
23.	Estimated value of rafts Rs.	.....	15,101	15,101	3. Total ...			2,331 15 1
24.	Tollage on boats "	313-4-6	737-9-3	1,050-13-9				
25.	Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0				
26.	Tollage on rafts "	.....	731-7-0	731-7-0	4. Amount credited in the accounts of the month ...			1,916 12 0
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-06				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-0-7-0	5. Balance due at the end of the month ...			415 3 1

BEAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupers.	Tons.	Rupers.	
20	1. Grain ...	26	212	238	20,675	238	20,675	
...	2. Cotton ...	.....	.....	.....	.....	..	.....
9	3. Oilseeds ...	1	167	168	18,808	168	18,808	
21	4. Salt ...	274	...	274	30,400	274	30,400	
2	5. Piece-goods ...	13	.....	13	16,900	13	16,900	
...	6. Metal ...	5	.....	5	42,645	5	42,645	
24	7. Building materials ...	.....	236	236	329	144	226	
71	8. Miscellaneous ...	88	281	369	25,897	294	25,759	
4	9. Fuel ...	65	.....	65	662	...	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts.	11. { Bullahs ...	.....	376	376	2,870	376	2,870	
	{ Bamboos ...	.....	318	318	3,033	318	3,033	
	{ Firewood ...	.....	752	752	3,102	752	3,102	
151	12. Total ...	472	2,342	2,814	1,05,331	2,582	1,64,418	
120	13. Total of same month last year.	370	1,202	1,572	91,926	1,323	90,374	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	39	112	151	Total tollage of month— 24 + 25 + 26 ...	1,501 14 0
15. Total number of boats plying passenger No.	1	1	2		
15½. Total number of empty boats No.	92	12	104	Total tollage of same month last year ...	1,288 9 0
16. Total registered tonnage, cargo Tons	730	1,462	2,192		
17. Total registered tonnage, passenger Tons	60	62	122	<i>Memorandum of Tollage.</i>	
17½. Total registered tonnage, empty Tons	326	51	377		
18. Ton-mileage ...	52,390	75,269	127,659		Rs. A. P.
19. Estimated value of cargo Ra.	1,00,314	55,912	1,56,226	1. Balance not recovered on the 1st of the month ...	380 0 9
20. Number of passengers ...	829	856	1,685		
21. Rafts, bamboos C.ft.	.....	47,797	47,797	2. Tollage per month ...	1,501 14 0
22. Do., bullahs "	.....	28,254	28,254		
22½. Do., firewood "	.....	56,465	56,465		
23. Estimated value of rafts Ra.	.....	9,005	9,005	3. Total ...	1,881 14 9
24. Tollage on boats "	251-5-9	484-13-6	736-3-3		
25. Compounded tollage on boats Ra.	228-0-0	228-0-0	456-0-0	4. Amount credited in the accounts of the month ...	1,746 2 9
26. Tollage on rafts "	.....	309-10-9	309-10-9		
27. Total tollage on boats per ton-mile Ra.	.....	.....	0-0-1-79		
28. Total tollage on rafts per 100 cubic feet Ra.	.....	.....	0-3-8	5. Balance due at the end of the month ...	135 12 0

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	
13	1. Grain ...	92	90	182	8,661	182	8,661
	2. Cotton ...	2	.....	2	3,310	2	3,310
7	3. Oilseeds ...	1	143	144	14,336	144	14,336
	4. Salt ...	1	.....	1	144	1	144
	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
	6. Metal ...	2	.....	2	1,244	2	1,244
9	7. Building materials ...	1	125	126	1,338	21	413
26	8. Miscellaneous ...	11	373	384	26,965	384	26,965
	9. Fuel ...	.....	.....	.....	.....	.....	.....
	10. Timber ...	.....	103	103	1,089	103	1,089
Rafts	11. Bamboos ...	.....	56	56	1,053	56	1,053
55	12. Total ...	110	890	1,000	58,140	895	57,215
33	13. Total of same month last year.	16	893	909	37,198	904	37,048
14.	Total number of boats plying cargo No.	7	48	55	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P.
15.	Total number of boats plying passenger No.	12	11	23			569 2 0
15½.	Ditto empty "	39	10	49			
16.	Total registered tonnage, cargo Tons	142	1,096	1,238	Total tollage of same month last year ...		Rs. A. P.
17.	Total registered tonnage, passenger Tons	256	230	486			635 10 3
17½.	Ditto empty "	139	31	170			
18.	Ton-mileage ...	9,113	29,306	38,419	Memorandum of Tollage.		
19.	Estimated value of cargo Rs.	9,191	46,807	55,998	1. Balance not recovered on the 1st of the month ...		Rs. A. P.
20.	Number of passengers ...	698	699	1,292			61 6 3
21.	Rafts, bamboos C. ft.	.....	8,427	8,427			
22.	Do., bullahs "	.....	7,774	7,774	2. Tollage per month ...		569 2 0
23.	Estimated value of rafts Rs.	.....	2,142	2,142			
24.	Tollage on boats "	73-13-9	238-4-6	312-2-3			
25.	Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0	3. Total ...		630 8 3
26.	Tollage on rafts "	.....	42-15-9	42-15-9			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-62			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-4-2	4. Amount credited in the accounts of the month ...		593 9 6
					5. Balance due at the end of the month ...		36 14 9

**ABSTRACT FOR THE MONTH OF JANUARY 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1889-90.				TRAFFIC, 1890-91.				REMARKS.				
	During the month.		To end of the month.		During the month.		To end of the month.						
<i>Orissa Circle.</i>	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.				
Taldunda Canal System ...	223	12	2	3,055	7	3	498	2	6	2,320	0	0	
Kendrapara Canal System ...	8,060	9	2	44,501	4	3	5,374	6	0	39,732	11	6	
High Level, Range I ...	900	10	1	6,133	3	5	643	12	6	4,914	10	0	
Ditto " II ...	299	15	0	2,412	11	0	281	11	6	2,016	10	6	
Ditto " III ...	53	4	0	1,029	6	9	93	5	6	896	12	6	
Jajepore Canal ...	17	5	8	97	7	7	16	6	2	74	4	11	
Total Orissa Circle ...	9,555	8	1	57,229	8	3	6,907	12	2	49,975	1	5	
<i>South-Western Circle.</i>													
Midnapore Canal ...	11,043	10	6	1,17,206	6	0	16,125	1	0	1,17,474	8	9	
Hidgellies Tidal Canal ...	1,517	6	9	38,338	12	6	2,783	15	0	47,485	4	0	
Total South-Western Circle	12,561	1	3	1,55,545	2	6	18,909	0	0	1,64,959	12	9	
<i>Sone Circle.</i>													
Patna Canal System ...	1,932	4	9	20,226	12	6	1,545	12	9	20,916	11	6	
Arrah ditto ...	1,501	14	0	15,308	12	8	1,288	9	0	16,237	11	2	
Buxar ditto ...	569	2	0	5,837	7	8	835	10	3	7,611	5	9	
Total Sone Circle ...	4,003	4	9	41,373	0	10	3,670	0	0	44,765	12	5	
GRAND TOTAL ...	26,119	14	1	2,54,147	11	7	29,486	12	2	2,59,700	10	7	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1889-90.						TRAFFIC, 1890-91.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	1,231	970	1,175 7 10	6,760	6,837	8,290 12 4	638	1,303	1,007 9 2	4,349	4,024	5,135 0 4
Total Orissa Circle ...	1,231	970	1,175 7 10	6,760	6,837	8,290 12 4	638	1,303	1,007 9 2	4,349	4,024	5,135 0 4

TOTAL NAVIGATION RECEIPTS.

CANAL.	REVENUE, 1889-90.				REVENUE, 1890-91.				REMARKS.			
	During the month.		To end of the month.		During the month.		To end of the month.					
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.			
Orissa Canals	10,780	15	11	65,520	4	7	7,915	5	4	55,110	1	9
Midnapore Canal	11,043	10	6	1,17,206	6	0	16,125	1	0	1,17,474	8	9
Hidgellee Tidal Canal	1,517	6	9	38,338	12	6	2,783	15	0	47,485	4	0
Sone Canals	4,003	4	9	41,373	0	10	3,670	0	0	44,765	12	5
Total	27,295	5	11	2,62,438	7	11	30,494	5	4	2,64,835	10	11

CALCUTTA,
The 22nd April 1890.

G. A. G. SHAW,.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDIA RIVERS.

Statement showing quantities of Goods carried during the month of February 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
857	1. Grain ...	8,438	2,817	6,250	3,23,371	6,250	3,23,371	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
37	3. Oilseeds ...	.....	483	483	55,763	483	55,763	
251	4. Salt ...	2,170	.....	2,170	1,85,345	2,170	1,85,345	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
29	6. Metal* ...	118.5	24.25	142.75	83,507	142.75	83,507	
13	7. Building materials ...	153	1	154	2,505	154	2,505	
693	8. Miscellaneous ...	2,114	4,386.5	6,500.5	9,98,010	6,500.5	9,98,010	
120	9. Fuel ...	1,361.8	142	1,503.8	19,254	1,503.8	19,254	
Rafts 193	10. Timber ...	1,357 c. ft.	47,715 c. ft.	49,066 c. ft.	1,32,803	49,066 c. ft.	1,32,803	
" 2	11. Bamboos ...	.....	2,750 "	2,750 "	275	2,750 "	275	
2,000 & 195 rafts.	12. Total ...	{ 9,356.8 & 1,357 c. ft.	{ 7,853.75 & 50,465 c. ft.	{ 17,204.05 & 51,816 c. ft.	{ 18,00,833	{ 17,204.05 & 51,816 c. ft.	{ 18,00,833	* 41 Mounds raised up on Matlabhanga river.
1,645 & 13 rafts.	13. Total of same month last year	{ 6,204 & 848 c. ft.	{ 7,465 & 3,420 c. ft.	{ 13,669 & 4,268 c. ft.	{ 13,70,275	{ 13,669 & 4,268 c. ft.	{ 13,70,275	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	1,208	792	2,000	Total tollage of month—24+25+26 ...	10,237 15 6
14a. Ditto empty boats, " No.	613	808	1,011	Total tollage of same month last year ...	8,106 6 0
15. Total number of boats plying passenger No.	834	729	1,563	Memorandum of Tollage.	
15a. Ditto empty boats " No.	11	3	14		
16. Total registered tonnage, cargo Tons	26,067	17,116	43,183	1. Balance not recovered on the 1st of the month ...	Rs. A. P. 349 3 6
17. Total registered tonnage, passenger Tons	131	135	266	2. Tollage per month ...	10,237 15 6
18. Ton-mileage	.....	.....	.....	3. Total ...	10,587 3 0
19. Estimated value of cargo Rs.	8,07,494	8,60,261	16,67,755	4. Amount paid into treasury during the month ...	10,242 2 6
20. Number of passengers No.	2,069	2,952	5,021	5. Balance due at the end of the month ...	345 0 6
21. Rafts, bamboos O. ft.	...	2,750	2,750		
22. Do., bullocks " "	1,351	47,715	49,066		
23. Estimated value of rafts Rs.	2,278	1,30,800	1,33,078		
24. Tollage on boats " "	5,140-10-6	4,383-15-6	9,524-10-0		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts " "	12-4-6	701-1-0	713-5-6		
27. Total tollage on boats per ton-mile*	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Ra.	.....	.....	1-6-0		

* Boats in these rivers do not pay per mile.

Abstract for the month of February 1890 as compared with the corresponding month of the previous year.

	1889-90.		1888-89.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	10,237 15 6	1,78,112 12 3	8,106 6 0	1,83,793 7 2

CALCUTTA.
The 22nd April 1890.G. A. G. SHAWL,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of February 1890.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
338	1. Grain ...	3,045	88	3,133	1,20,667	3,133	1,20,667	
...	2. Cotton ...	.....	.....	.....	.....	...	.....
4	3. Oilseeds ...	8	.....	8	945	8	945	
20	4. Salt ...	.....	120	120	14,025	120	14,025	
8	5. Piece-goods ...	.....	28	28	4,228	28	4,228	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
39	7. Building materials ...	31	60	91	492	53	322	
782	8. Miscellaneous ...	229	490	719	71,861	681	71,671	
21	9. Fuel ...	1	381	382	4,618	382	4,618	
Rafts 12	10. Timber ...	1,100 c. ft.	522 c. ft.	1,622 c. ft.	3,152	1,622 c. ft.	3,152	
" 11	11. Bamboos ...	450 "	275 "	725 "	86	725 "	86	
1,214 } 23 rafts }	12. Total ...	{ 3,314 & 1,550 c. ft.	{ 1,167 & 797 c. ft.	{ 4,481 & 2,347 c. ft.	{ 2,20,074	{ 4,405 & 2,347 c. ft.	{ 2,19,714	
1,489 } 27 rafts }	13. Total of same month last year	{ 3,766 & 537 c. ft.	{ 1,160 & 1,800 c. ft.	{ 4,926 & 2,337 c. ft.	{ 2,23,178	{ 4,822 & 2,337 c. ft.	{ 2,21,395	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		566	648	1,214	Total tollage of month— 24+25+26 ...			5,866 12 2
15. Total number of boats plying passenger No.		94	70	164	Total tollage of same month last year ...			6,946 7 3
16. Total registered tonnage, cargo Tons		6,577	4,388	10,915	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		883	886	1,769				
18. Ton-mileage ...		183,046	150,183	333,229				
19. Estimated value of cargo Rs.		130,316	86,520	2,16,836				
20. Number of passengers No.		2,223	2,857	5,080				
21. Rafts, bamboos C. ft.		450	275	725				
22. Do., bullocks "		1,100	522	1,622				
23. Estimated value of rafts Rs.		1,799	1,439	3,238				
24. Tollage on boats "		4,787-0-6	1,056-9-0	5,843-9-6				
25. Compounded tollage on boats Rs.		.....	0-1-9	0-1-9				
26. Tollage on rafts "		21-4-0	1-13-0	23-1-0				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-3				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-15-8				
					1. Balance not recovered on the 1st of the month ...			Rs. A. P. 4,681 12 6
					2. Tollage per month ...			5,866 12 3
					3. Total ...			10,548 8 9
					4. Amount paid into treasury during the month ...			4,694 2 9
					5. Balance due at the end of the month ...			5,854 6 0

Abstract for the month of February 1890 as compared with the corresponding month of the previous year.

	1889-90.		1890-91.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	5,866 12 3	55,258 13 0	6,946 7 3	60,106 5 3

CALCUTTA,
The 22nd April 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of February 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		Rupees.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
1,603	1. Grain ...	32,926	17	32,943	32,943	36,51,568	* For details, see next page.
4	2. Cotton ...	59	.....	59	59	31,350	
3	3. Oilseeds ...	7	27	34	34	4,512	
387	4. Salt ...	365	6,610	6,975	6,975	6,59,104	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....
6	6. Metal ...	5	28	33	33	6,587	
155	7. Building materials ...	3,041	478	3,519	3,519	50,463	
2,172	8. Miscellaneous* ...	19,664	2,333	21,937	21,937	27,50,152	
511	9. Fuel ...	10,668	2,928	13,596	13,596	1,04,244	
.....	10. Timber ...	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....
4,841	12. Total ...	66,675	12,421	79,096	79,096	72,57,980	* For details, see next page.
5,029	13. Total of same month last year.	74,473	9,286	83,759	83,759	70,00,332	
		Up.	Down.	Total.			
14.	Total number of boats plying cargo No.	4,152	689	4,841	Total tollage of month— 24 + 25 + 26 ...		Rs. ° A. P. 48,445 4 9
14a.	Empty " "	2,595	1,001	3,596			
15.	Total number of boats plying passenger No.	405	3	408	Total tollage of same month last year ...		50,417 2 9
16.	Total registered tonnage, cargo Tons	188,028	33,459	2,21,487	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	774	20	794			
18.	Ton-mileage ...	16,48,840	3,34,590	19,83,430			Rs. A. P.
19.	Estimated value of cargo Rs.	62,96,618	9,61,362	72,57,980	1. Balance not recovered on the 1st of the month ...		2,292 1 6
20.	Number of passengers No.	5,626	20	5,646	2. Tollage per month ...		48,445 4 9
21.	Rafts, bamboos C. ft.	.....	.....	.....	3. Total ...		50,737 6 3
22.	Do., bullehs "	.....	.....	.....	4. Amount paid into treasury during the month ...		49,182 15 6
23.	Estimated value of rafts Rs.	.....	.....	.....	5. Balance due at the end of the month ...		1,604 6 9
24.	Tollage on boats "	40,242-11-3	8,202-9-6	48,445-4-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts "	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4-68			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.**

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
639	(a) Jute ...	15,375	38	15,413	19,42,087	15,413	19,42,087	
38	(b) Jaggery ...	197	104	301	33,700	301	33,700	
3	(c) Sugar ...	11	.....	11	3,087	11	3,087	
2	(d) Tobacco ...	.....	3	3	700	3	700	
784	(e) Fish ...	279	1	280	78,320	280	78,320	
12	(f) Hides ...	17	.....	17	3,850	17	3,850	
48	(g) Poultry ...	12	.....	12	5,191	12	5,191	
135	(h) Hay and straw ...	1,181	.....	1,181	24,798	1,181	24,798	
91	(i) Oil ...	.....	1,496	1,496	2,09,425	1,496	2,09,425	
30	(k) Earthenware ...	54	.....	54	757	54	757	
390	(m) Other miscella- neous ...	2,478	691	3,169	4,48,237	3,169	4,48,237	
2,172	Total Miscellaneous...	19,604	2,333	21,937	27,50,152	21,937	27,50,152	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of February 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
5,408	1. Grain ...	14,086	19	14,105	14,33,983	14,105	14,33,983	* For details, see next page.
9	2. Cotton ...	54	.....	54	28,975	54	28,975	
9	3. Oilseeds ...	159	9	168	23,300	168	23,300	
65	4. Salt ...	572	358	930	87,918	930	87,918	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
265	7. Building materials ...	2,436	.....	2,436	10,903	2,436	10,903	
1,319	8. Miscellaneous* ...	4,099	79	4,178	4,31,676	4,178	4,31,676	
172	9. Fuel ...	2,509	48	2,557	20,236	2,557	20,236	
4 rafts.	10. Timber ...	2,498 c. ft.	1,080 c. ft.	3,578 c. ft.	8,050	3,578 c. ft.	8,050	
4 rafts.	11. Bamboos ...	190 "	.....	190 "	31	190 "	31	
7,247 & 8 rafts.	12. Total ...	{ 23,915 & 2,688 c. ft.	{ 513 & 1,080 c. ft.	{ 24,428 & 3,768 c. ft. }	20,45,072 {	{ 24,428 & 3,768 c. ft. }	{ 20,45,072	
6,161 & 10 rafts.	13. Total of same month last year ...	{ 25,265 & 287 c. ft.	{ 481	{ 25,746 & 287 c. ft. }	16,95,317 {	{ 25,746 & 287 c. ft. }	16,95,317	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo ... No.		7,184	63	7,247	Total tollage of month— 24 + 25 + 26 ...			12,761 0 9
14a. Empty " "		1,414	305	1,719	Total tollage of same month last year ...			13,044 12 3
15. Total number of boats plying passenger ... No.		734	14	748	Memorandum of Tollage.			
16. Total registered tonnage, cargo ... Tons		76,371	2,451	78,822				
17. Total registered tonnage, passenger ... Tons		1,741	50	1,791				Rs. A. P.
18. Ton-mileage ...		6,31,286	39,216	7,20,502	1. Balance not recovered on the 1st of the month ...			330 9 0
19. Estimated value of cargo Rs.		19,88,271	48,720	20,36,991	2. Tollage per month ...			12,761 0 9
20. Number of passengers No.		5,796	159	5,955	3. Total ...			13,091 9 9
21. Rafts, bamboos C. ft.		190	.....	190	4. Amount paid into treasury during the month ...			12,868 14 3
22. Do., bullahs "		2,498	1,080	3,578	5. Balance due at the end of the month ...			222 11 6
23. Estimated value of rafts Rs.		5,651	2,430	8,081				
24. Tollage on boats "		12,100-5-0	613-0-0	12,713-5-0				
25. Compounded tollage on boats ... Rs.		.....	.....	.....	
26. Tollage on rafts "		22-6-0	25-5-0	47-11-0				
27. Total tollage on boats per ton-mile		.....	.....	0-2-3-38				
28. Total tollage on rafts per 100 cubic feet ... Ra.		.....	.....	1-4-2				

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
12	(a) Jute ...	96	.....	96	12,150	96	12,150	
101	(b) Jaggery ...	623	3	626	70,100	626	70,100	
1	(c) Sugar ...	3	.....	3	712	3	712	
7	(d) Tobacco ...	55	14	69	13,475	69	13,475	
233	(e) Fish ...	50	1	51	14,223	51	14,223	
1	(f) Hides ...	2	.....	2	600	2	600	
1	(g) Poultry ...	1	.....	1	160	1	160	
534	(h) Hay and straw...	940	.....	940	19,745	940	19,745	
30	(j) Oil ...	258	.....	258	36,125	258	36,125	
84	(k) Earthenware ...	119	5	124	1,734	124	1,734	
290	(m) Other miscellane- ous.	1,952	56	2,008	2,62,652	2,008	2,62,652	
1,319	Total Miscellaneous...	4,099	79	4,178	4,31,676	4,178	4,31,676	

**ABSTRACT FOR THE MONTH OF FEBRUARY 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1889-90.			TRAFFIC, 1888-89.		
	During the month.		To end of the month.	During the month.		To end of the month.
	Rs.	A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	48,445	4 9	8,39,271 7 0	50,417	2 9	8,93,642 11 0
Tolly's Nullah ...	12,761	0 9	94,335 2 6	13,044	12 3	1,22,274 4 3
Total ...	61,206	5 6	4,33,606 9 6	63,461	15 0	5,15,916 15 3

Calcutta,
The 22nd April 1890.

G. A. G. SHAW, *Under-Secretary to the Govt. of Bengal.*

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 19th April 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 19th APRIL 1890.			WEEK ENDING SATURDAY, THE 20th APRIL 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	145	85,200	624	201	69,060	1,158
Jute ...	12	5,060	84	18	5,900	108
Firewood ...	60	33,725	407	118	47,065	780
Other articles ...	497	1,17,160	1,011	700	1,66,410	2,598
Total ...	714	1,91,125	2,086	1,036	2,90,225	4,680

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of January 1890, as compared with the same month of the previous year.

STAPLES.	1889.		1890.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	18,954	4,190	13,800	2,704	17,000	16,004	1,076	
Cotton, raw	100	977	13	620	1,000	619		
Cotton piece-goods—								
1.—European—								
a.—in bales and bundles								
b.—in boxes								
2.—Indian—								
a.—in bales and bundles								
b.—in boxes								
Grains—								
1.—Rice	3,063	4,100	1,178	2,700	6,763	2,048	2,700	
2.—Others	967	14,012	609	9,004	15,600	9,925	5,675	
Hides and skins—								
1.—Hides of cattle—								
a.—Un-dressed								
b.—Un-dressed								
2.—Skins of sheep, &c.—								
a.—Un-dressed								
b.—Un-dressed								
Jute—								
1.—Raw—								
a.—Un-dressed	100	8,100	7	4,601	8,170	4,401	3,677	
b.—Un-dressed	22	20,633	7	19,011	20,655	19,018	7,077	
2.—Gunny-bags and cloth	327	1,015	122	803	1,342	1,034	618	
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Iron and steel, wrought								
4.—Iron								
5.—Tin								
6.—Others								
Oil—								
1.—Kerosine	401	1	204	4	402	208	94	
2.—Others	254	66	171	43	303	214	89	
Oil-seeds—								
1.—Linseed								
2.—Rapeseed and mustard								
3.—Oil or gingelly								
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
1.—Rice	93	697	154	73	690	227	463	
2.—Rice	875	440	503	611	1,024	1,174	150	
3.—Others	8,174	1,240	4,070	2,713	4,414	7,383	2,969	
Railway plant and rolling-stock	5,907	6	2,100	4	8,013	5,166	708	
Salt								
1.—Un-dressed								
2.—Un-dressed	1,400	233	911	1,061	1,823	1,973	150	
Tee—								
1.—Foreign								
2.—Indian	1	636	3	226	630	240	390	
Wood—								
1.—Timber	900	22	102	140	841	240	60	
2.—Firewood	1,633	1	2,470		1,634	2,470	836	
Tobacco	63	1,000	63	1,383	1,101	1,330	229	
All other articles of merchandise—								
1.—Unmanufactured	4,617	1,784	4,646	1,783	6,301	6,429	128	
2.—Manufactured	477		818		477	818	341	
Hay, straw, and wooluo (C. & S. E. Section)								
Total	37,980	63,354	37,348	60,410	1,00,394	87,758	12,636	4,874

Comparative Statement of traffic for January 1890.

INCREASES.

Coal	Tons.
For railway and flotilla consumption.	1,076
Cotton, raw	446
Of this increase the P. T. Railway contributed 9,215 maunds and Narayanganj 3,300 maunds.	
Rice	2,795
Of this increase the Northern Section contributed 46,000 maunds, and the Southern Section the remainder.	
The increase is due to a favourable winter crop.	
Jute, unscrewed	7,037
This increase was principally contributed by Mymensingh which despatched 163,452 maunds during the month, being an increase of 136,422 maunds over the despatches in the corresponding month of 1889.	
The Northern Section contributed the remainder of the increase.	
Jute, screwed	3,677
About one-third of this increase was contributed by Narayanganj. The increase is due to extended arrangements with jute-melars.	
Gunny-bags and cloth	318
Probably from Barajganj, the return for which place is not to hand.	
Oil-seeds	304
From Forbaganj, Kashba, and Katihar principally.	
Hotel-nuts	463
From and via Khoolna.	
Salt	768
The increase is in booking from Chitpore station.	

DECREASES.

Railway plant, &c.	2,969
Due to completion of works on the Hoher Section.	
Tobacco	616
Rungpur and Kaunia show the principal decreases.	

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, the 19th April 1890.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the four weeks ended 22nd February 1890.
as compared with the same period of 1889.

STAPLES.	1889.		1890.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING.	No.		No.		No.		No.	
Horses, ponies, and mules ...	122	4,025	181	2,082	59	1,080		
Cattle ...	118	843	111	1,065	7	267		
Sheep and goats ...	4,770	3,614	3,667	2,927	1,103	2,667		
Other kinds ...								
BORAX								
Cane and ratan ...	6,714	5,017	4,939	3,600	1,775	1,417		
Casuarina (Indian-rubber) ...	176	101	184	83	12	18		
Chinese and Japanese ware ...	83	63	66	63	17	5		
Coal and coke, up ...	10,30,882	2,50,450	9,30,022	3,15,700	83,960	34,750		
Ditto, down ...	29,07,068	3,37,109	34,03,323	4,27,010	4,96,255	93,908		
Cotton, raw ...	2,87,711	2,01,591	1,81,386	1,20,003	1,06,325	71,588		
COTTON, MANUFACTURED.								
Twist and yarn (European) ...	6,760	8,357	5,444	7,731	1,316	735		
Ditto (Indian) ...	14,063	8,480	12,508	7,431	1,555	1,049		
Piece-goods (European) ...	1,10,397	1,10,397	1,27,574	1,40,000	17,177	29,603		
Ditto (Indian) ...	10,310	13,550	20,470	13,003	10,160	1,113		
DRUGS AND MEDICINES.								
Amorpha ...	473	209	578	291	105	182		
Other sorts, not intoxicating... Intoxicating drugs (other than opium, i.e., arsenic, bhanga, ganja, and charas, &c.)	1,743	1,507	1,084	1,718	659	329		
DYEING MATERIALS.								
Indigo ...	1,987	2,043	1,190	1,503	797	500		
Madder or manjit ...	1	3	98	22	97	19		
Safflower ...	78	21	44	17	34	12		
Turmeric ...	9,800	9,440	9,151	8,024	649	325		
Other kinds ...	6,627	4,181	8,982	4,805	2,355	1,738		
Earthenware and porcelain	740	1,100	690	1,048	50	152		
FIBROUS PRODUCTS.								
Jute, raw ...	37,402	17,142	17,853	4,600	20,190	7,441		
Do., manufactured (gunny-bags and cloths).	61,038	30,312	53,843	20,704	7,210	4,108		
Other fibres, raw ...	17,810	8,357	30,755	10,101	12,945	1,744		
Ditto, manufactured ...	2,440	992	1,415	472	1,025	520		
FRUITS & NUTS.								
Coconuts ...	4,390	2,610	3,930	1,354	460	1,256		
All other kinds ...	30,617	30,319	35,514	21,102	4,897	6,284		
GRAIN & PULSES.								
Wheat ...	1,20,000	55,340	1,61,210	47,146	41,210	14,806		
Gram and pulses ...	2,14,618	55,750	2,49,585	51,220	34,967	24,290		
Rice, husked ...	7,44,000	1,17,403	9,17,000	1,94,500	1,72,500	73,100		
Do., unhusked ...	1,074	1,160	30,074	3,890	29,000	2,716		
Other rain and spring crops	1,01,276	16,934	1,25,710	20,114	24,434	3,180		
Game and furs	4,700	5,037	4,138	2,229	562	2,808		
HIDES & SKINS.								
Hides of cattle ...	56,000	36,112	70,405	54,451	14,405	18,339		
Skins of sheep, goats, and small animals.	11,373	4,330	11,398	5,136	2	706		
Horns	1,453	650	752	481	601	178		
LAC								
Lac, dye ...	25	4	70	104	45	100		
Do., shell ...	20,214	13,574	19,402	14,703	712	1,871		
Do., stick and other kinds	25,600	8,870	32,610	10,706	7,010	2,836		
LEATHER								
Leather, unmanufactured ...	1,993	3,037	2,043	3,400	50	563		
Ditto, manufactured ...	2,622	3,010	2,170	3,447	452	663		
Liquors	14,016	18,102	10,640	10,874	3,376	7,228		
Metals and manufactures.								
Brass and copper ...	1,103	871	871	362	232	509		
Iron ...	20,380	17,053	10,531	19,020	9,849	5,033		
Other metals ...	1,13,000	67,370	67,370	47,241	20,029	18,213		
Oils	2,401	1,588	3,701	2,505	1,300	917		
Opium	1,07,012	44,760	63,012	19,870	44,142	24,890		
Paints and colours	19,031	22,803	583	688	18,448	22,115		
PROVISIONS								
Ghee ...	50,304	10,073	35,441	13,747	14,863	6,326		
Other kinds ...	6,701	7,062	7,766	7,002	965	760		
Railway materials.								
Construction Account ...	91,340	3,070	93,040	2,000	1,700	1,700		
Ditto, ditto ...	1,24,000	30,540	35,183	37,888	12,888	7,348		
Salt								
Saltpetre ...	5,44,000	1,00,501	4,20,000	85,000	1,24,000	15,501		
SALT-PETRE, &c.								
Saltpetre ...	80,807	42,047	70,708	34,710	10,099	7,337		
Other saline substances	10,106	3,380	10,030	3,003	77	377		
SEEDS								
Mustard and rape ...	49,857	15,761	47,707	15,101	2,150	660		
Oil-seeds ...	2,91,490	60,338	2,45,000	55,248	46,490	5,090		
Til or sinjelly ...	34,785	9,140	37,405	9,870	2,620	730		
Other oilseeds ...	57,037	14,204	51,937	10,034	5,100	4,170		
Indigo seed ...	1,33,435	46,780	1,44,000	47,000	10,565	1,220		
Tea seed ...	24,000	11,451	20,153	10,801	3,898	650		
Other kinds ...	3,254	2,317	2,611	1,920	643	397		
SILK								
Do., manufactured (European) ...	411	310	410	335	1	75		
Do., ditto (Indian) ...	55,467	41,402	18,255	11,193	37,212	30,209		
Spices and marble								
Sugar, refined ...	2,90,105	20,301	1,00,000	25,001	1,90,105	20,400		
STEEL								
Do., unrefined ...	3,00,000	35,000	1,27,701	24,740	1,72,299	10,260		
TEA								
Do., Indian ...	3,00,000	35,000	3,00,000	48,000	48,000	2,000		
Do., Foreign ...	1,368	875	1,000	1,000	368	10		
Tobacco								
Do., ...	19,000	8,845	17,000	7,001	2,000	1,844		
WOOD								
Timber ...	51,004	9,472	39,125	8,206	11,879	1,266		
Firewood ...	48,276	2,721	28,401	2,004	19,875	1,717		
Wood, raw ...	1,944	1,688	475	371	1,469	1,317		
Do., manufactured (European) ...	94	168	72	140	22	28		
WOOL								
Do., manufactured (Indian) ...	1,373	1,154	1,344	800	529	354		
Shawls ...	3	11	1	1	2	10		
All other articles of merchandise	2,50,770	1,20,311	2,40,405	1,44,000	10,365	13,311		
Minerals								
Do., ...	2,10,000	20,013	1,00,000	20,000	1,10,000	8,013		
Government stores								
Do., ...	25,777	21,410	25,777	22,050	3,727	9,360		
Total	92,94,753	22,99,434	93,00,000	22,82,237	5,04,753	1,16,197	9,20,274	2,17,277

General remarks on the fluctuations of principal staples carried over the East Indian Railway during 4 weeks ended 22nd February 1890.

INCREASES.

Cotton.—The increase was chiefly in despatches from stations above Cawnpore to Howrah for export.
Wheat.—The improvement in this staple was due to a fair demand in Calcutta for local consumption, despatches having been made chiefly from Bahadurganj, Bhagulpore, Aizamb, Hathras, and Delhi.

Grain and Pulses.—There was a decrease in the weight carried attended with an increase in the earnings; the former was due to heavy short land despatches last year from stations on the R. district. The increase in earnings was chiefly in dall from Cawnpore to Howrah for export to Rangoon.

Iron.—The increase under this head was chiefly in iron pipes despatched from Howrah for the new water-works at Agra and Delhi; some scrap materials also were brought down to Howrah for sale.

Oil.—This was chiefly in despatches of kerosine-oil from Howrah to Patna and Moghul Serai, and to stations on the East Indian Railway.

Opium.—The increase was principally in consignments to Howrah from Ghazipur and Tari Ghat.

Foreign Railway Material.—This was chiefly in despatches of materials to Damooda, Chakardarpur, and Umaria for the Bengal-Nagpur Railway, and to Delhi for the Delhi-Umballa-Kalka Railway.

Salt.—Due to a good demand for Liverpool salt. Despatches were chiefly made from Howrah to stations on the Assam-Belur, Tirhoot State, and the Bengal and North-Western Railways.

Saltpetre.—Chiefly in despatches from Patna, Mokameh Ghat, and Delhi to Howrah for export to China.

Seeds.—The increase was in the new crop of mustard-seed from the Tirhoot State and the Oudh and Rohilkhand Railways to Howrah, principally for local consumption.

Spices.—Principally in chillies from Mokameh and Mokameh Ghat to Howrah, Burdwan, and stations on the Eastern Bengal State Railway.

Sugar (refined and unrefined).—The increase was chiefly in despatches from stations on the Shahabad district to Howrah for export to Assam and Burmah, owing to supplies from Mauritius having fallen off.

Bones.—In despatches from Mokameh Ghat, Allahabad and Moghul Serai to Bally and Chitpur.

DECREASES.

Coal and Coke.—This is in continuation of the decreases previously reported, and was principally in downwards traffic.

Piece-goods.—The decrease was chiefly in despatches from Howrah; there was also a falling off in the despatches from Bombay to Cawnpore and Jubbulpore consequent on diversion to the Itarsi route.

Rice (husked and unhusked).—The falling off in this commodity was principally at stations on the "A" and "E" districts, owing to there being no demand at stations on the "B" district and on the Tirhoot State Railway this year.

Hides.—The decrease was in despatches from the principal sending stations up-country, and was due to small supplies in local markets.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, 17th April 1890.

ALLEN MEARS, Deputy Traffic Manager.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	946,849	2,89,218 7 0	92,37,070 30	6,64,017 10 6	19,502 8 0	9,72,784 19 6	67,002	185,392	2,52,394
Or per mile of railway ...	.....	189 9 6	.....	435 4 9	12 12 7	637 10 9	.....	.....	.....
For previous 16 weeks of half-year ...	3,706,676	40,60,051 1 0	3,64,63,997 0	11,80,211 7 6	2,77,635 1 0	1,28,65,927 0 0	608,474	1,328,084	2,236,558
Total for 16 weeks ...	3,954,925	43,49,230 8 0	3,95,00,167 30	12,93,280 1 0	2,97,147 11 0	1,38,38,856 2 0	675,480	1,433,431	2,408,911
COMPARISON.									
Total for corresponding week of previous year ...	249,304	2,39,841 14 10	26,80,924 30	6,01,163 1 0	22,656 11 9	9,16,761 11 7	67,304	100,310	167,614
Per mile of railway corresponding week of previous year ...	.....	156 1 0	.....	394 9 8	14 13 8	600 15 4	.....	.....	.....
Total to corresponding date of previous year ...	3,961,643	44,02,402 5 11	4,15,00,737 10	12,94,221 9 0	3,37,450 13 11	1,39,96,090 15 10	692,745	1,441,452	2,434,197

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 13TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 13TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1880 TO 13TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
1,084	9,10,763	801	1,025	9,72,789	636	1,350	17,89,198	580	1,084	14,70,105	547	.....	50,000

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 12th April 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	18,114	7,171 4 0	54,331 9 5	2,846 14 0	41 5 0	11,059 7 0	1,433	581	2,014
Or per mile of railway ...	366	125 2 11	967 30	67 4 1	0 11 7	203 5 7	.....	.....	.....
For previous 14 weeks of half-year ...	153,363	56,226 10 0	5,60,404 10	41,609 1 0	532 14 0	1,87,616 9 0	24,015	9,580	33,595
Total for 15 weeks ...	171,477	1,08,797 14 0	7,54,787 3 5	44,903 15 0	574 8 0	1,48,678 0 0	25,501	10,831	36,332
COMPARISON.									
Total for corresponding week of previous year ...	14,919	7,215 4 7	43,394 10	3,087 0 0	46 19 3	10,369 0 10	1,065	1,215	2,280
Per mile of railway corresponding week of previous year ...	286	124 5 1	786 30	53 7 1	0 13 1	190 9 3	.....	.....	.....
Total to corresponding date of previous year ...	283,286	1,23,623 6 7	5,80,223 10	34,334 13 0	1,306 0 3	1,59,166 3 10	27,494	9,781	37,275

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 13TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 13TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
57½	Rs. 10,229	Rs. 181	57½	Rs. 11,059	Rs. 193	57½	Rs. 21,569	Rs. 189	57½	Rs. 20,248	Rs. 177	.....	Rs. 1,321

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	26,360	8,519 9 0	10,536 20	879 15 0	10 8 0	8,500 11 0	285	107	1,012
Or per mile of railway ...	.....	362 14 8	.....	17 1 3	0 7 4	409 7 0	.....	.....	.....
For previous 14 weeks of half-year ...	203,418	79,874 15 0	2,10,357 24	7,100 13 0	147 10 0	86,033 6 0	12,180	1,841	12,530
Total for 15 weeks ...	329,778	87,004 8 0	2,20,876 20	7,400 12 0	157 18 0	86,833 1 0	13,094	1,648	14,542
COMPARISON.									
Total for corresponding week of previous year ...	20,875	11,874 10 7	6,873 0	861 11 0	9 7 8	11,986 12 10	1,218	26	1,364
Per mile of railway corresponding week of previous year ...	.....	504 11 8	.....	11 5 0	0 6 10	506 7 1	.....	.....	.....
Total to corresponding date of previous year ...	223,094	94,206 8 1	1,48,069 10	5,161 6 0	108 8 0	99,003 1 1	12,829	1,608	14,786

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 13TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 13TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
23½	Rs. 11,986	Rs. 506	23½	Rs. 9,010	Rs. 400	23½	Rs. 18,400	Rs. 416	23½	Rs. 16,370	Rs. 331	.....	Rs. 4,225

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 5th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	306,076	88,870 0 0	8,23,650 0	75,930 0 0	18,320 0 0	1,73,010 0 0	28,316	29,928	58,243
Or per mile of railway ...	409	118 0 0	109 0	101 0 0	24 0 0	231 0 0	...	...	...
For previous 13 weeks of half-year ...	1,046,890	10,23,963 0 0	74,74,500 0	14,32,023 0 0	2,51,606 0 0	27,97,623 0 0	290,542	294,548	585,090
Total for 14 weeks ...	2,252,966	11,04,863 0 0	79,95,750 0	15,07,853 0 0	2,67,916 0 0	29,80,632 0 0	311,457	415,776	727,233
COMPARISON.									
Total for corresponding week of previous year ...	180,268	74,236 0 0	5,10,443 0	74,184 0 0	21,277 0 0	1,09,698 0 0	21,713	22,463	44,176
Per mile of railway corresponding period of previous year ...	241	110 0 0	768 0	110 0 0	28 0 0	146 0 0	...	...	...
Total to corresponding date of previous year ...	1,106,129	12,00,346 0 0	80,80,206 0	11,97,154 0 0	2,52,556 0 0	25,80,489 0 0	260,624	342,854	603,478

* Audited up to week ending 5th February 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 5TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,09,698	252	747	1,73,010	231	673	1,49,651	216	747	1,23,576	165	.....	21,575

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 5th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	22,310	10,090 0 0	63,000 0	3,750 0 0	60 0 0	13,840 0 0	3,755	1,967	5,672
Or per mile of railway ...	266	80 0 0	500 0	30 0 0	1 0 0	111 0 0	...	...	...
For previous 13 weeks of half-year ...	287,610	1,57,968 0 0	8,93,920 0	39,014 0 0	710 0 0	1,66,323 0 0	44,902	24,476	71,334
Total for 14 weeks ...	309,920	1,58,013 0 0	8,95,680 0	42,374 0 0	770 0 0	1,66,163 0 0	48,697	26,613	75,310
COMPARISON.									
Total for corresponding week of previous year ...	20,788	10,386 0 0	60,768 0	4,240 0 0	90 0 0	14,747 0 0	3,745	1,967	5,672
Per mile of railway corresponding period of previous year ...	296	83 0 0	500 0	34 0 0	1 0 0	115 0 0	...	...	...
Total to corresponding date of previous year ...	406,718	1,43,573 0 0	7,90,506 0	42,423 0 0	4,363 0 0	1,90,381 0 0	51,377	26,614	77,991

* Audited up to week ending 5th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 5TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH APRIL 1890.			Total increase in 1890-90.	Total decrease in 1890-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,747	118	125	13,840	111	125	12,640	101	125	9,656	79	.....	2,786

DACCRA STATE RAILWAY.

Approximate Return of Traffic for week ended 5th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,539	8,540 0 0	25,010 0	1,940 0 0	130 0 0	8,640 0 0	2,450	634	3,104
Or per mile of railway ...	190	76 0 0	302 0	22 0 0	1 0 0	77 0 0	.....	.....	.....
For previous 13 weeks of half-year ...	211,930	82,940 0 0	3,40,450 0	34,844 0 0	2,327 0 0	1,20,121 0 0	31,178	9,004	40,782
Total for 14 weeks ...	228,369	91,480 0 0	3,75,360 0	36,748 0 0	2,447 0 0	1,28,064 0 0	33,658	10,278	43,836
COMPARISON.									
Total for corresponding period of previous year ...	17,331	4,878 0 0	11,178 0	945 0 0	230 0 0	5,008 0 0	2,460	614	3,074
Per mile of railway corresponding period of previous year ...	201	56 0 0	130 0	20 0 0	2 0 0	56 0 0	.....	.....	.....
Total to corresponding date of previous year ...	219,816	68,229 0 0	1,71,763 0	15,167 0 0	2,324 0 0	65,765 0 0	24,679	9,242	33,921

* Audited up to week ending 5th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 5th APRIL 1890.			RECEIPTS FOR WEEK ENDING 5th APRIL 1889.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 5th APRIL 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 5th APRIL 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
86	5,900	69	86	5,140	60	86	5,100	59	86	6,100	71	902	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 12th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,299	1,114 0 0	9,432 0	603 0 0	9 0 0	1,726 0 0	540	234	763
Or per mile of railway ...	121	41 0 0	360 0	22 0 0	.....	63 0 0	.....	.....	.....
For previous 13 weeks of half-year ...	45,542	16,344 0 0	1,95,400 0	11,787 0 0	1,204 0 0	20,233 0 0	6,006	4,651	11,759
Total for 14 weeks ...	47,841	17,458 0 0	2,04,832 0	12,400 0 0	1,213 0 0	21,240 0 0	7,417	7,105	14,522
COMPARISON.									
Total for corresponding week of previous year ...	2,780	1,044 0 0	7,465 0	509 0 0	377 0 0	1,929 0 0	500	234	763
Per mile of railway corresponding week of previous year ...	193	38 0 0	280 0	19 0 0	14 0 0	71 0 0	.....	.....	.....
Total to corresponding date of previous year ...	51,178	19,387 0 0	1,85,651 0	10,000 0 0	1,400 0 0	21,006 0 0	7,480	7,240	14,720

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 12th APRIL 1890.			RECEIPTS FOR WEEK ENDING 12th APRIL 1889.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 12th APRIL 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 12th APRIL 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
27½	1,926	71	27½	1,786	65	27½	3,246	62	27½	2,985	54	.....	650

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 12th April 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANTS AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	48,114	18,645 0 0	2,62,043 0	29,399 0 0	3,423 0 0	61,467 0 0	8,472	8,552	13,974
Or per mile of railway	176	68 0 0	959 0	108 0 0	3 0 0	179 0 0	...	...	...
For previous 13 weeks of half-year	667,679	2,73,512 0 0	38,42,175 0	4,13,908 0 0	62,416 0 0	7,29,734 0 0	75,701	128,478	204,876
Total for 14 weeks	705,793	2,92,157 0 0	39,04,218 0	4,43,297 0 0	65,837 0 0	7,81,201 0 0	80,923	140,027	218,950
COMPARISON.									
Total for corresponding week of previous year	61,763	18,828 0 0	1,54,373 0	12,101 0 0	4,961 0 0	26,890 0 0	4,980	8,323	10,503
Per mile of railway corresponding week of previous year	190	69 0 0	564 0	45 0 0	7 0 0	124 0 0	...	...	...
Total to corresponding date of previous year	631,890	2,41,164 0 0	29,27,498 0	1,93,177 0 0	49,309 0 0	4,85,550 0 0	61,737	80,866	163,635

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway

RECEIPTS FOR WEEK ENDING 13TH APRIL 1890			RECEIPTS FOR WEEK ENDING 12TH APRIL 1889			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1890			TOTAL RECEIPTS FROM 1ST APRIL 1888 TO 12TH APRIL 1889			Total increase or decrease in 1889-90.	Total decrease or increase in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	26,890	135	273	61,467	189	273	73,171	184	273	60,947	159	15,776	...

[REGISTERED No. 29.]

No. 18 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 30, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1869 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depot from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

**RESOLUTION ON THE IRRIGATION OPERATIONS OF CANALS IN
BENGAL DURING KHARIF SEASON OF 1889-90.**

No. 7197.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 28th April 1890.

RESOLUTION.

READ—

Statements Nos. I, II, and III of Irrigation Operations of Canals in Bengal during kharif season of 1889-90.

OBSERVATIONS—The area irrigated during the kharif season of 1889-90 was 481,111 acres against 485,502 acres in 1888-89; a decrease of 9 per cent.

2. On the Orissa Canals the kharif area under irrigation has expanded by 10,717 acres, and it is probable that when the measurements of lands upon some of the canals which have not yet been cadastrally surveyed are finally completed, the area will be found to be actually larger than that shown in the statements. The character of the season in many respects resembled that of 1888-89, during which a larger area of kharif was irrigated than in any previous year in the history of these canals. Of the additional area now brought under lease, 8,772 acres are in the Balasore district, the increase in the irrigation corresponding to a decline in the rainfall from 40.04 inches to 31.40 inches.

3. On the Midnapore Canal only 29.67 inches of rainfall were registered against 51.42 in the previous year. There was an active demand for water, especially at the end of the season; and the discharge of the Cossye, on which less reliance can be placed than on any other river in Bengal used as a source of supply, was fairly well maintained. The returns show a nominal decrease on this canal of 1,070 acres; but as the supply in 1888-89 was admittedly insufficient, and large remissions on the assessed area had in consequence to be granted, the results of 1889-90 really indicate an improved state of affairs.

4. In the three districts watered by the Sone Canals, the rainfall from July to October was below the average and much below the rainfall of the previous year. The season, however, was not an unfavourable one as far as the rice crop was concerned, for rain continued to fall until a late date in September. A break which then occurred and lasted till nearly the end of the *kathia* (25th September to 8th October) produced a strong demand for water for irrigation; and though there was rain on 8th October, the subsequent showers in that month were insignificant. During the 30 days from 21st September to 20th October, the Sone Canals in this as in the preceding year were worked almost to full power, but the pressure during this period was not as acute as in the corresponding period in 1888-89; and the area to which water was supplied shows a small falling off. In five-year leases, however, notwithstanding that 45,455 acres had lapsed on the 1st April 1889, and that applications for 29,788 acres were refused on the ground that the village channels were not of the required standard, and for other good reasons, there is an increase of 16,000 acres, so that the deficiency already noted took place entirely in annual kharif leases.

ORDER.—Ordered that a copy of this Resolution, and of the Statements Nos. I, II, and III, be submitted to the Government of India, in the Public Works Department, for information; also that copies be forwarded to the Commissioners of the Orissa, Burdwan, and Patna Divisions; the Collectors of Cuttack, Midnapore, Patna, Shahabad, Gya, and Sarun; the Superintending Engineers of the Orissa, South-Western, and Sone Circles; and the Examiner of Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,

Secretary to the Government of Bengal.

NO. I.—KHARIF STATEMENT.
GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE KHARIF SEASON, 1889-90.

Comparative Statement of Irrigation and Rainfall in Canal Districts of Bengal.

DISTRICTS.	Area in acres.	Culturable acres.	AREA IRRIGATED.		1889-90 AS COMPARED WITH 1888-89.		RAINFALL FOR FOUR MONTHS.								REMARKS.			
			1888-89.	1889-90.	Increase.	Decrease.	July.		August.		September.		October.			Total.		
							1888.	1889.	1888.	1889.	1888.	1889.	1888.	1889.				
Cuttack	...	Information not available.	130,885	132,530	1,945	.....	8·87	13·98	21·55	16·64	8·43	5·10	1·04	9·08	39·18	42·75	Average rainfall of 11 stations in the Cuttack district.
Balasore	...	Information not available.	26,623	24,400	8,772	.....	14·14	9·29	21·36	10·91	8·03	6·76	1·50	4·43	40·04	31·40	Average rainfall at Bhuddruck and Acquapadda stations.
Midnapore	...	Information not available.	65,906	66,011	.....	896	21·30	7·82	21·96	13·14	7·37	6·34	0·79	2·87	51·43	29·67	No rain-gauge stations on the Tidal Reaches of the Midnapore Canal.
Hooghly	...	Information not available.	5·72	318	184	Rainfall at Daudnagar.
Gya	...	3,015,630	29,810	29,779	.....	31	16·53	8·11	18·15	10·20	6·23	3·66	...	...	41·01	31·97	Rainfall at Patna.
Patna	...	1,533,220	25,763	22,943	.....	2,810	15·14	8·64	17·11	9·49	3·17	15·70	...	0·05	35·43	34·08	Rainfall at Arrab station.
Shahabad	...	2,806,400	202,121	193,498	.....	9,693	17·90	13·66	17·74	13·63	5·68	5·15	0·43	0·92	41·65	33·83	Rainfall at Sewan station.
Sarua	...	1,630,000	3,697	2,342	.....	1,555	11·65	10·99	12·89	9·63	12·24	8·37	...	...	36·79	28·99	Rainfall at Sewan station.
Total	485,503	481,111	10,717	15,106	

NOTE.—The figures for 1888-89 as now given are corrected. Net decrease, 4,391.

CALCUTTA, }
 The 28th April 1890. }
 G. A. G. SHAW,
 Under-Secy. to the Govt. of Bengal.

No. II.—KHARIF STATEMENT.

IRRIGATION OPERATIONS OF EAST KHARIF, 1889-90.

Statement in acres of crops irrigated in Canal Districts.

NAMES OF CROPS.	Cuttack.	Balasore.	Midnapore.	Bonghly.	Gya.	Patna.	Shahabad.	Barun.	TOTAL
Garden and orchards
Sugarcane
Cereals
{ Wheat
{ Barley
{ Rice
{ Miscellaneous
{ Gram, &c.
{ Miscellaneous
{ Grass lucerne
{ Cotton
{ Indigo
{ Turmeric, &c.
{ Opium
{ Tobacco, &c.
{ Mustard, &c.
{ Castor
Oilseeds
Miscellaneous
hot-weather
Total, 1889-90	182,889	34,400	66,011	318	29,770	32,943	198,488	2,343	481,111
Total, 1888-89	180,885	35,034	66,906	503	29,810	32,763	203,121	3,897	485,502

CALCUTTA,

G. A. G. SHAW,

The 28th April 1890.

Under-Secy. to the Govt. of Bengal

IRRIGATION OPERATIONS OF FASL KHARIF, 1989-90.

Statement in acres of crops irrigated by Canals in Canal Divisions.

[illegible]

G. A. G. BERRY,

Under-Secy. to the Govt. of Bengal.

The 28th April 1890.

**RESOLUTION ON THE REPORT OF THE HEALTH OFFICER OF
THE PORT OF CALCUTTA FOR THE YEAR 1889.**

No. 1684 Marine.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Marine.

Calcutta, the 28th April 1890.

RESOLUTION.

READ—

A letter No. 1148, dated the 26th February 1890, from the Sanitary Commissioner, Bengal, submitting the report of the Health Officer of the Port of Calcutta for the year 1889.

Dr. RICHARDS was the Health Officer of the Port of Calcutta from the beginning of the year up to the 14th September, when he took leave. Shortly afterwards he died. He was relieved by Dr. G. Jameson, who acted until the 11th November, when he made over charge to Dr. R. MacLeod, who has submitted the present report. The Health Officer asked to be furnished with a suitable boat for his use, as the one which he had was too large to be safely handled within the moorings. A new boat has now been supplied.

2. The report shows that 1,443 vessels were inspected during the year, against 1,464 in 1888. The reduction in the number of vessels inspected is unimportant.

Dr. Richards brought to notice that many steamers arrived in the port which had unsuitable and ill-ventilated accommodation for their crews, and the Health Officer was asked to furnish instances of such ships, with a view to the Board of Trade being furnished with information on the subject. Certain instances having already been furnished to the Government, the owners of the vessels not ordinarily trading to the United Kingdom were addressed on the subject, and they have undertaken to improve the ventilation of the crew spaces. Further enquiries are now being made regarding other vessels, the result of which will be communicated to the Government of India.

3. The number of European seamen who arrived in port fell from 22,705 in 1888 to 20,662 in the year under report, but the daily average population was 1,626 against 1,510 in 1888. Including deaths out of hospital, the death-rates per mille of the last five years were as follows:—

			Cholera.	Other causes.	Total.
1885	...	...	4.72	25.99	30.71
1886	...	...	11.61	33.53	45.14
1887	...	...	10.03	16.91	26.94
1888	...	...	10.59	27.15	37.74
1889	...	...	11.07	20.29	31.36

The following table shows the number of admissions into hospital and deaths from different diseases during the past five years:—

	1885.		1886.		1887.		1888.		1889.	
	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.
Cholera ...	16	7	40	28	29	14	16	38	17	17
Diarrhoea ...	102	...	185	...	116	1	103	2	142	2
Dysentery ...	116	6	106	3	70	...	34	4	61	4
Fever, enteric ...	4	1	12	4	8	3	2	...	1	...
" malarious ...	104	2	321	3	220	1	120	1	227	2
" simple ...	344	...	167	...	65	...	22	1	79	...
Scurvy ...	13	...	7	...	4	...	3	...	...	...
Small-pox ...	3	...	...	...	1	...	1	...	...	...
Stroke ...	6	3	4	1	6	1	10	...	6	1
Other diseases ...	1,179	12	1,875	34	1,201	11	1,182	21	1,267	17
Total ...	1,976	40	2,714	71	1,719	35	1,422	40	1,816	41

4. The total number of casualties from all causes was 51 against 57 in 1888. Of these, 43 occurred in hospitals and 8 elsewhere. As regards the cases in hospitals, it is satisfactory to notice that the death-rate fell from 32·4 per mille in the previous year to 26·4 during the year under report, which is nearly equal to the quinquennial mean (26).

5. The death-rate from cholera was slightly lower than the average of the previous five years. As regards the seasonal incidence of this disease, it may be observed that the rise in the port did not always correspond with that in the town.

The Health Officer brings to notice that timely information is not always given to him by the Hospital authorities of the occurrence of cholera on board ships with a view to enable him to inspect them early. The Inspector-General of Civil Hospitals has already been asked to instruct the Superintendents of the Medical College, General, Howrah, Campbell and Mayo Hospitals, to convey to the Health Officer early information of cases of cholera, small-pox, or other contagious diseases common in India, and of scurvy occurring amongst sailors, and his attention will again be invited to the subject. Rules have also been framed with a view to enable the Health Officer to get information of such diseases occurring on board direct from the shipping. They are under the consideration of the Government and will shortly be issued.

6. It is satisfactory to observe that there were no admissions from small-pox during the year, against 1 in 1888, and that no death has been reported from this disease since 1881.

It is worthy of remark that there were no admissions from scurvy during the year, against 3, 4, 7 and 13 in 1888, 1887, 1886 and 1885 respectively.

Six cases of sunstroke were admitted into hospital with 1 death, against 19 admissions with 5 deaths in hospital and 3 deaths out of hospital in 1888. Three deaths from this disease are reported to have occurred on board ships in port.

There was no death either from acute alcoholism or *delirium-tremens*.

7. Fifteen deaths are reported to have occurred from drowning, against 6 in 1888. The late Dr. Richards suggested that death from this cause might to a certain extent be prevented by putting up hand-rails on each side of the landing-stages. It was ascertained that none of the accidents in 1888 happened from off the jetty gangways, and no action was taken in the matter. The Health Officer will be instructed to report the causes so far as they can be ascertained of the 15 accidents which occurred in 1889.

8. Although the number of European seamen admitted into hospital on account of venereal disease in 1889 was greater than in the previous year, the rate per mille on the average strength was lower than that of the past three years, and it compares favourably with the quinquennial mean.

At sea there were 36 deaths, against 35 during the previous year.

9. The following table shows the mortality from all causes among the native floating population, the averages being calculated on a population of 25,000 :—

		Total deaths.		Ratio per mille.	
		1889.	1888.	1889.	1888.
Cholera	...	80	95	3·2	3·7
Bowel-complaints	...	9	7	·36	·27
Fever, malarious	...	5	22	·2	·85
Do., simple	...	8	...	·32	...
Other causes	...	27	24	1·08	·96
Total	...	129	148	5·16	5·78

The figures, however, as stated last year, are not very reliable.

10. The total death-rate among the lascar crews on the river was 1·29 per 1,000 against 1·6 per 1,000 in 1888. No complaints were made by the lascar crews during the year.

11. During the year four ships arrived in port with pilgrims from Jeddah, in one of which there were two cases of small-pox. In the annual report for the year 1887, the Health

Officer of the Port made certain proposals with a view to ensure the more

efficient sanitary treatment of vessels arriving in port with cases of small-pox. It has been decided that it must be left to the captains and officers of ships to assist the Health Officer in carrying out the provisions of the Compulsory Vaccination Act.

Water-supply.

12. No complaint was made in regard to the water-supply to the shipping during the year.

13. The Lieutenant-Governor notices with satisfaction that there has been a general improvement in the conservancy of the

Conservancy.

foreshore of the river, some of the nuisances formerly complained of having been removed. Although the drain at King's Road, Howrah, still discharges into the river, yet it is more free from pollution than it formerly was, as measures have been taken by the Municipal Commissioners of Howrah to prevent offensive matter being thrown into the drain till the proposed scheme for draining the whole town is carried out. The nuisance at the jetties, which was formerly a subject of complaint, has been removed by providing an additional latrine within the jetty enclosure. The flushing inlets have also been free from offensive smell during the year.

Dr. MacLeod reports that the highly objectionable outflow of liquid sewage from Fort William has received the personal attention of the Sanitary Commissioner, and hopes that permanent good will result. A scheme for connecting the sewers of Fort William with those of the town has been prepared, and the Government of India has been asked to have it carried out.

It is satisfactory to observe that the defects noticed in the previous year's report, regarding the state of Kassi Mitter's burning ghât, have been remedied by raising a wall on the river side, thus preventing the cremation of bodies being seen from the river.

The Health Officer brings to notice that at a brick-field at Ghosery the foreshore is not kept in proper sanitary condition. The Health Officer will be asked to submit a special report on this subject.

14. The Lieutenant-Governor, while noticing with satisfaction the decrease

Corpses and carcasses floating in the river.

in the number of corpses found in the river, regrets to find that the number of carcasses is still on the increase. The Municipal and Judicial Departments of this Government will be asked to take further steps in this matter.

15. The Lieutenant-Governor notices with deep regret the untimely death of Dr. Richards, and endorses the remarks of the

Conclusion.

Sanitary Commissioner that in him the Government has lost a zealous, energetic and efficient officer. His Honour is glad to observe that Dr. MacLeod and the Native Sanitary Inspector, Baboo Nanda Lal Halidar, have performed their duties satisfactorily.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE BUDGET ESTIMATE OF THE PORT TRUST
FUND FOR THE YEAR 1890-91.

No. 1098 Marine.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Marine.

Dated Calcutta, the 28th April 1890.

RESOLUTION.

READ—

A letter No. 2844, dated the 26th March 1890, from the Vice-Chairman of the Commissioners for making Improvements in the Port of Calcutta, submitting for sanction the budget estimates of the Commissioners for the year 1890-91.

A general summary of the budget estimates submitted by the Commissioners is subjoined—

REVENUE ACCOUNTS.		Estimate for 1890-91.	Estimate for 1889-90.
RECEIPTS.		Rs.	Rs.
Part I.—Jetties	...	11,71,819	11,54,319
" II.—Inland Vessels' Wharves	...	4,69,784	4,70,284
" III.—Strand Bank Lands	...	1,70,276	1,70,276
" IV.—Port or Harbour Master's Department	...	5,44,073	5,41,953
" VI.—Tramway	...	3,20,000	3,20,000
" VII.—Port Approaches	...	6,523	6,523
Total	...	26,82,475	26,63,335
EXPENDITURE.			
Part I.—Jetties	...	9,14,417	8,93,572
" II.—Inland Vessels' Wharves	...	4,03,144	4,35,994
" III.—Strand Bank Lands	...	1,02,977	1,06,332
" IV.—Port or Harbour Master's Department	...	5,05,432	5,33,682
" VI.—Tramway	...	2,36,686	2,28,665
" VII.—Port Approaches	...	5,13,646	4,64,095
Total	...	26,76,302	26,62,340

STATEMENT OF WAYS AND MEANS.

	Rs.
Estimated balance on 1st April 1890	1,55,022
Add estimated receipts as above	26,82,475
Total	28,37,497
Deduct estimated expenditure as above	26,76,302
Probable balance on 31st March 1891	1,61,195

Receipts.

2. The estimate of receipts from the Jetties (Part I) is taken at Rs. 24,000 below the estimate for the previous year. It is stated that there was a great falling off in the grain export trade, causing in the first quarter of 1889-90 diminished shipping receipts. The receipts at the Petroleum Wharf at Budge-Budge and at the Tea Warehouse at Armenian Ghât are taken in each case at Rs. 20,000 over the figures for the previous year.

3. In Appendix B a sum of Rs. 20,000 is entered, representing the earnings of the Commissioners' hopper barges. The Lieutenant-Governor desires

that the Commissioners will furnish the details on which this estimate is based, together with a schedule of the charges levied for the use of the barges.

4. In Appendix G a sum of Rs. 5,229 is entered as the rent to be received from the Government for the portion of the Commissioners' premises which is occupied by the Port Office. As the new Port Office will be ready for occupation at the latest by the 1st of January 1891, the amount should be reduced by 25 per cent.

5. The estimate of receipts from the Commissioners' Tramway [Part IV] is taken at Rs. 3,20,000. From information recently received it appears that the charges levied by the Commissioners for the conveyance of goods by their tramway have not, as required by law, received the sanction of the Local Government. The schedule of these charges is now under the consideration of the Government, and the estimate is accepted subject to any modifications that may be made hereafter. The estimate may also require modification to bring the working of the tramway into conformity with the provisions of the Railway Act which has recently been passed by the Council of His Excellency the Governor-General for making Laws and Regulations.

6. In estimate No. 23 a sum of Rs. 13,000 is entered, which represents fees for the survey of vessels. The charges for the survey of vessels will, on and after the 1st of May 1890, be disbursed by the Government, and the fees will be credited to the Government with effect from the same date. The estimate of receipts should be revised accordingly.

Expenditure.

7. An increase of Rs. 21,000 is proposed in the expenditure at the Jetties [Part I]. The principal items of increase are Rs. 5,000 under Salaries and Rs. 11,000 under Working Expenses. The former is for the Tea Warehouse and the latter for the Tea Warehouse and the Petroleum Wharf.

8. It may be remarked that while after providing for interest and other charges a surplus revenue of large amount is obtained from the petroleum trade, the Tea Warehouse at Armenian Ghât appears to be worked at a considerable loss.

9. The expenditure at the Inland Vessels' Wharves [Part II] is estimated at Rs. 4,03,144, against the estimate of Rs. 4,35,994 for the previous year. The difference is due to a reduction in the amount allotted for new works and improvements.

10. Estimate No. 14 amounts to Rs. 31,000 and provides for the cost of two new works. The estimates for these works require the sanction of the Government.

11. In the Harbour Master's Department [Part IV] there is a reduction of Rs. 31,910 under the head "Renewal of Block." It is explained that a sum of Rs. 2,00,000 having been accumulated, the estimate for the current year provides only Rs. 10,000, which is the sum that will actually be spent on renewals.

12. Estimate No. 30 provides Rs. 30,673 for establishment for the survey of vessels, &c. The estimate should be revised in accordance with the remarks made above with reference to estimate No. 23.

13. In estimate No. 28 of the detailed estimates, a provision of Rs. 2,400 is made for "Subscription to institutions which contribute to the welfare of seamen." This expenditure is sanctioned under the provisions of section 36, sub-section (5), clause (e) of the Indian Ports Act. The question of whether the subscription to the District Charitable Society is a proper charge on the revenues of the Commissioners has been referred for the opinion of the law officers of the Government.

14. The estimated expenditure on the Tramway [Part VI] shows an increase of Rs. 8,021. For the reasons mentioned in commenting on the estimate of receipts from the Tramway, the approval to the estimate of expenditure should be regarded as provisional only.

15. The estimate of expenditure under Part VII, River Survey, Lights, and Channel Buoyage, amounts to Rs. 5,13,646, against Rs. 4,64,095 for the previous year. The difference is due to an increase of Rs. 50,000 in the amount credited to the depreciation account. It is stated that one of the light-vessels will not last for more than another year, and as there is at present only

Rs. 50,000 at credit of the depreciation account, there appears to be no likelihood of the charges on the Port Fund appertaining to this Part being reduced in the near future. Having in view the risks to which the property appertaining to this Part is liable, the Government is of opinion that the amount at credit of the depreciation account should be increased as soon as possible.

16. It is proposed to meet the expenditure under Part VII on river surveys, lights, and buoyage of the channels as follows:—

			Rs.
Surplus revenue from the Jetties	...	...	2,70,000
Ditto ditto Inland Vessels' Wharves	...	...	60,000
Ditto ditto Strand Bank Lands	...	...	70,000
Ditto ditto Harbour Master's Department	...	...	30,000
Ditto ditto Tramway	...	...	80,000
Total of surplus revenue transferred from other Parts			5,10,000

17. The charges in respect of river surveys, lights, and buoyage of the channels were formerly met from tonnage dues levied under the Indian Ports Act, and in the Resolution on the budget estimate of the Commissioners for 1889-90, it was remarked that on the completion of the Kidderpore Docks the present method of raising the income necessary to defray the charges falling upon the Port Trust might require modification. The whole subject is now engaging the attention of the Government, and the Commissioners are being asked to furnish an estimate (a) of the total annual charges that will fall on the Trust after the completion of the docks, and (b) of the income to be obtained in respect of the several services which will be rendered by the Trust to owners of vessels and goods.

18. The Commissioners may find it necessary, during the latter part of the current year, to take measures to strengthen their revenues so as to provide a reserve fund to meet contingencies which are likely to occur when the dock charges in respect of interest and working expenses fall on those revenues. This question will also be dealt with on receipt of the information which is being called for.

Establishment.

19. A revision of the Tea Warehouse Establishment is proposed. Provision is made for the pay of an Assistant Superintendent on Rs. 250 a month, and for certain changes in the subordinate establishment. It appears that the warehouse is worked at a loss; but as an Assistant Superintendent seems to be actually required, and as his appointment will probably result in increased revenue, the Lieutenant-Governor sanctions the revision proposed.

20. It is proposed to increase the pay of the Rent Collector from Rs. 90 to Rs. 120. This is a substantial increase, but as the total charge is not great, the Lieutenant-Governor sanctions it on condition that it is personal to the present incumbent.

21. It appears that a Chief Clerk on Rs. 100 a month has been entertained in the Harbour Master's Department, and that his salary has been met by an appropriation from the provision of Rs. 150, made in grant No. 7 of estimate No. 29, for an engineer, whose services have not been required. The Lieutenant-Governor has no objection to the employment of this clerk, but His Honour must at the same time observe that the action of the Commissioners in employing him without the sanction of the Government was not in accordance with the provisions of the law.

22. In Appendix A, under the head "Accounts Department" (item No. 5), a provision of Rs. 600 a month is made for the pay of the Chief Accountant, and of Rs. 50 a month for his personal allowance. There is at present an Acting Accountant, and it should be stated whether he draws the full pay of the appointment and the personal allowance.

23. In items 17 and 18 of the same appendix, under the head "Workshop Establishment," deductions are made for work done in connection with the Howrah Bridge, and then at the bottom of the page a deduction is again made from the net amount. An explanation of this procedure should be submitted for the information of the Lieutenant-Governor.

24. In Appendix J a provision of Rs. 800 a month is made for the pay of an Assistant Superintendent in the Traffic Department. If, as the Lieutenant-Governor understands, the services of an officer to fill this appointment have not actually been engaged, His Honour desires that no steps may be taken to engage him for the present. In view of the very heavy additional charges that are about to fall on the revenues of the Trust, the Lieutenant-Governor wishes the Commissioners to consider whether the work cannot be conducted without the assistance of this highly paid officer.

25. It is proposed in the draft estimates to meet one-fourth of the officer's pay from the revenues of the Howrah Bridge. The circumstances under which a portion of the Traffic Manager's pay was debited to the Howrah Bridge Fund should be reported for the information of the Government.

26. In item 1 of estimate No. 29 of the detailed estimates, a provision of Rs. 200 a month is made for the personal allowance of a Harbour Master. The officer who held the appointment of Harbour Master died recently, and the question will have to be decided as to whether his successor should get a personal allowance, and, if so, of what amount. The Commissioners should submit their proposals on this subject.

27. The revision of the establishments of the river surveying vessels *Resolute*, *Cuckoo*, and *Tigris*, the anchor-vessel *Vulcan*, and the spare light-vessel as shown in the schedule of establishments appended to the estimates, is sanctioned.

28. Subject to the remarks contained in the foregoing paragraphs, the Lieutenant-Governor, in pursuance of the powers vested in him by section 50 of Act V of 1870, approves the estimate of income and expenditure of the Commissioners for the year 1890-91. The Commissioners are requested to furnish the Government with copies of the estimates revised in accordance with the instructions contained in this Resolution, and to submit as soon as possible the information asked for therein.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 26th April 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
1	Baridwan April 26, '90	1.22	Weather—hot and seasonable. Ploughing going on in some parts of the district. More rain urgently needed. Prospects of <i>tat</i> and sugarcane not good. Prices of common rice:— Srs. Sudder ... 17½ Culna ... 15 Raingunge ... 17½ } per rupee.
	Culna ...	2.45	
	Cutwa ...	1.60	
	Raingunge ...	0.60	
2	Baukeora „ 26, '90	0.25	Weather—hot. Ploughing for next rice commenced in places. Standing crops doing well. Transplanting of sugarcane going on. Common rice 20 seers per rupee at Sudder and 18½ seers at Bissenpore. The rain made the weather cool for a few days. It has enabled the people to prepare their lands for the next crops. Prices of rice remain at 16 to 20 seers per rupee.
3	Birbhum „ 26, '90	1.20	
	Rampore Haat ...	0.30	Winds somewhat changeable. Rain wanted for cultivation. Heat has been detrimental to silk-worm cocoons. Prices of common rice:— Srs. Sudder ... 18 Contal ... 20 Ghatal ... 18 Tamluk ... 16 } per rupee.
4	Midnapur „ 26, '90	0.10	
	Ghatal ...	0.76	
5	Hooghly „ 26, '90	Nil	Weather—hot and windy. No crops on the ground. Sugarcane being planted. Prices of common rice:— Srs. Sudder ... 14 Serampore ... 16 Jehanabad ... 16 } per rupee.
	Serampore ...	0.58	
	Jehanabad ...	0.11	
	Howrah „ 26, '90	0.80	Weather—very hot and occasionally sultry. Prospects not very favourable. Rain wanted very much.
<i>Central Districts.</i>			
6	24-Pargha.	Report not received.
7	Nudda April 26, '90	1.28	Storms during early part of week. Ploughing and sowing of early rice going on. More rain wanted.
	Kushtia ...	1.75	
	Maherpore ...	1.40	
	Chuadanga ...	1.24	
8	Ranaghat „ 26, '90	0.97	Weather—very hot, with occasional storms. Good rain has fallen in almost all parts of the district and ploughing has commenced. Outturn of <i>boro</i> paddy, the only crop now on the ground, is good.
	Khoolna ...	1.59	
	Bagirhat ...	0.79	
	Satkhira ...	3.73	
9	Jessore „ 26, '90	1.46	Weather—hot and cloudy, with occasional storms. The partial rain has done immense good to the ploughing and sowing of early rice, indigo, and jute; but more rain is wanted.
	Jhenilab ...	0.97	
	Magura ...	1.09	
	Narail ...	2.95	
10	Bongong „ 26, '90	1.69	Weather—hot. Good rain has fallen in the north of the district; elsewhere it is insufficient.
	Moorsheadabad ...	0.41	
	Lalbagh ...	0.22	
	Kandi ...	0.32	
	Jungipore ...	1.99	Weather—cool for the time of year. Jute, sugarcane, and <i>dhadoi</i> are being sown. In Sudder prospects are good, but more rain was wanted at Thakurgaon on the date of the report. Price of rice at Sudder and Thakurgaon 18 seers per rupee.
11	Dinagpur „ 26, '90	1.74	
	Thakurgaon ...	0.20	
12	Bajshabye „ 26, '90	0.81	Weather—cloudy and cool generally, with very sultry but short intervals. The sowing of jute and paddy is being vigorously prosecuted; but rain has not been general, and has been very unevenly distributed. Much more rain is wanted in parts; but the outlook is distinctly more favourable than it was.
	Natore ...	5.30	
	Nowgong ...	0.83	Weather—unsettled; cool and cloudy, with occasional storms of rain and wind. All crops have benefited largely by the rainfall. Jute and <i>aus</i> paddy are now germinating freely, and the land is being ploughed for the <i>amun</i> crop.
13	Rongpur „ 26, '90	1.16	
	Kurigram ...	2.09	
	Nilphamari ...	1.55	Weather—damp, sultry and stormy; generally cloudy, with intervals of sunshine. No standing crops. Rain has improved prospects. <i>Aus</i> rice and jute are being sown. Common rice selling at 18 seers per rupee.
14	Bogra „ 26, '90	2.57	
	Sherpur ...	1.62	
15	Pabna „ 26, '90	1.81	Weather—cloudy with occasional rain. <i>Aus</i> , <i>amun</i> , and jute still being sown. Prospects of the season improved by fall of rain. Prices slightly lower.
16	Darjeeling „ 26, '90	2.06	Weather—fair. <i>Murwa</i> , <i>dhadoi</i> , <i>kangni</i> , and <i>baata</i> in the hills, and sugarcane and jute in the Terai, are still being planted. Wheat and barley in the hills are being harvested. Prospects good.
17	Julpigore „ 26, '90	2.41	Weather—hot and cloudy, with occasional rain. Cultivation of <i>dhadoi</i> and jute going on rapidly. Drying of tobacco leaves continues. Prospects generally good. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca April 26, '90	2.16	Weather—hot and mostly cloudy. Heavy rain throughout the district. Ploughing and sowing of rice and jute are being vigorously pushed on. Rainfall has been beneficial to cultivation as well as to standing crops. <i>Boro dhan</i> is being harvested. Common rice 13 to 16 seers per rupee.
	19 Farroedpur „ 26, '90	0.68	Weather—seasonable. Recent rain has proved highly beneficial. Jute and paddy are being sown. Prospects favourable. Price of rice varies from 13 to 15 seers per rupee.
	20 Backergunge „ 26, '90	3.29	Weather—hot and cloudy, with occasional rain. Prospects of crops fair. Common rice selling at 13 to 14½ seers per rupee.
	21 Mymensingh „ 26, '90	3.57	Weather—seasonable; getting hotter. State and prospects of crops good. Common rice sells at 13½ seers per rupee.
Chittagong Divn.	22 Chittagong „ 26, '90	1.67	Weather—unsettled. <i>Aus</i> paddy being sown. State of chilly crop good. Price of common rice remains unchanged.
	23 Noakhally „ 26, '90	4.83	Weather—hot and close. Rain at intervals. Sowing of <i>aus</i> crop progressing. Abundant rain has fallen in the Fenny subdivision. Price of rice stationary.
	24 Tipperah „ 26, '90	0.61	Weather—moderately cool with high winds. <i>Boro dhan</i> harvested. <i>Aus</i> , <i>aman</i> , jute, <i>til</i> , and sugarcane doing well. Late rain beneficial to crops.
	25 Chittagong Hill Tracts „ 25, '90	4.46	Weather—hot; cloudy throughout the week, with rain, storms and high winds. <i>Jams</i> burning greatly retarded by rain. Gathering of tobacco still going on. Sugarcane doing well. Common rice being sold at 13 seers 14 chittacks per rupee.
BEHAR.			
Patna Divn.	Hill Tipperah „ „	..	Report not received.
	26 Patna „ 26, '90	Nil	Weather—hot and cloudy. Threshing and winnowing of <i>rubbi</i> crops still going on in the Behar subdivision, elsewhere finished. Prospects of crops on the ground good. Opium weighments progressing. Prices almost stationary.
	27 Gya „ 26, '90	Nil	Weather—cloudy. Threshing of <i>rubbi</i> crops almost finished. Sugarcane being irrigated. <i>Cheena</i> coming on well. Opium weighments going on.
	28 Shahabad „ 26, '90	Nil	Weather—normal till 24th. On 25th violent and dusty wind with reduction of temperature. Slight rain this morning (26th). <i>Cheena</i> ripe and being cut. Sugarcane transplanted.
Bhagalpur Divn.	29 Durbhunga „ 26, '90	0.10	Weather—cloudy with east wind. Slight rain has done some good to paddy, <i>cheena</i> , <i>mung</i> , and indigo. Prices have slightly risen.
	30 Moosufferpur Sitamarhi „ 26, '90	Nil	Eastward winds in first part of week. Weather cloudy occasionally. Rain in Sitamarhi. Rain much wanted. Paddy, <i>mung</i> , and <i>cheena</i> are still being sown.
	31 Saran „ 26, '90	Nil	Weather—hot. East winds till last two days. To-day (26th) light rain falling and weather cooler. Opium weighments nearly completed. <i>Cheena</i> doing well. Indigo prospects poor except in the north and west.
	32 Champaran „ 26, '90	Nil	Weather—very hot. East and west winds during the week. Cloudy at times. Threshing of <i>rubbi</i> completed. Lands are being dug and ploughed for paddy and other crops. Paddy and <i>cheena</i> are still being sown. Opium weighments progressing.
Bhagalpur Divn.	33 Monohyr Begusarai „ 26, '90	0.01 0.43	Weather—hot and dry; wind variable. Lands are being ploughed for <i>bhadoi</i> crops. Rain wanted. Transplanting of sugarcane going on in the Jamui subdivision. Prices stationary.
	34 Bhagalpur Banks „ 26, '90	2.13	Weather—seasonable; cloudy and windy in the evening. No rain at headquarters, though slight showers fell on two days during the week in all the three subdivisions. Want of rain retards cultivation for <i>bhadoi</i> crops. Sugarcane and <i>cheena</i> , the only crops now on the ground, are promising.
	Madhepoorah „ „	0.76	
	Sopool „ „	0.67	
	35 Purneah „ 26, '90	0.22	Weather—cloudy with easterly winds. Rain has not been sufficient for <i>bhadoi</i> sowings on high lands. Rice sown on low lands doing well. Jute is being sown in the Kishengunge subdivision.
	Kishengunge „ „	0.73	
	Arrareah „ „	0.45	
	36 Maldah „ 26, '90	0.12	Weather—cool and cloudy. High wind almost every day. Harvesting of <i>boro</i> commenced in English Bazar station. In other places the state of this crop has been improved more or less by the rain. State of mulberry continues fair. Prices of common rice stationary.
	Chanchal „ „	0.23	
	Shibgunge „ „	0.75	
	Gajole „ „	0.40	
	37 Sonthal Pergah „ 26, '90	1.12	Weather—cool except in Godda, where it is reported very hot. Rain has done much good, but more is wanted in Godda. <i>Boro dhan</i> coming to ear in Rajmehar. In Pakour no indigo sown this year on account of drought. Ploughing going on.
	Deoghur „ „	0.40	
	Godda „ „	0.03	
	Jamtara „ „	0.21	
	Pakour „ „	1.19	
	Rajmehar „ „	0.75	